



South Asian University

(A University established by SAARC nations)

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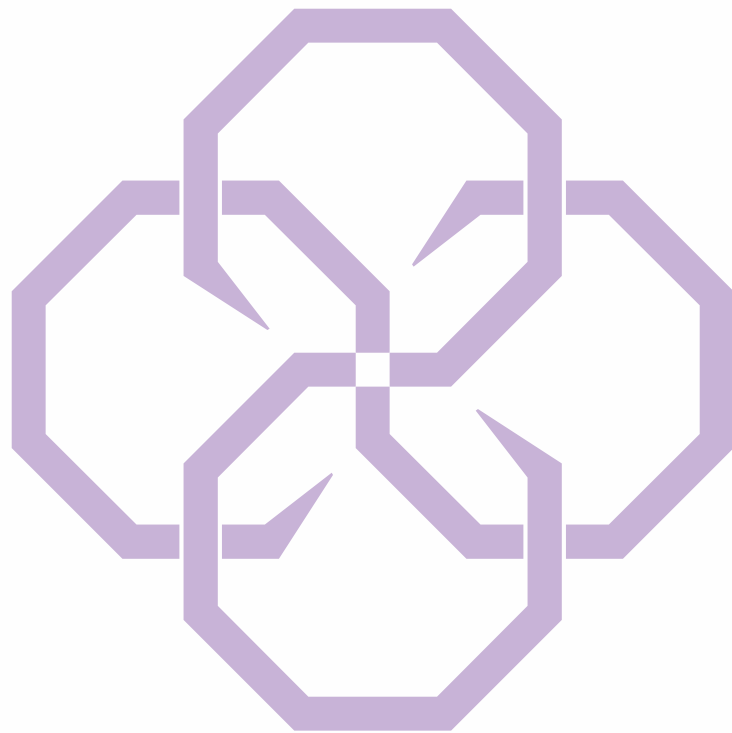
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Annual Report 2020

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Racing ahead against all odds

Xnks uyzmgxā mōmōmzul znk·kx“ nkznkx” k rōk āuz t uz ngy hkk t znk Gu'ō 3; Tgt j ks ō0M ngy gllki zkj grs uyz k' kx ut k gu| t j znk muhk ā | tvxki kj kt zkj “ g·yōXnk hgzzk gngā yzzngt k” vnkt us kt ut ngyhkk t j ōlō| rz ut k. gt j ā ykks y znkx q t u rkz| v. znk muus i us ā mā “ g' ky0Yt ō kxyāky gk t u k-i kvzait zu znkyk mgyzr “ g' ky0

[k vxāxōkj ul xgi zait vud zygt j t u i us vxus qk “ gy s gj k ut yglkz ul ul x yz| j kt zy. lgi | rz. yzgl| gt j ul x gyyui qzky “ uxqā mā i gs v| yōExgt nks kt zy” kks s gj k. gy s | i n gy vuyyōrk. lux yglk vgyygnk ul ul x yz| j kt zy zu znkōxkyvki zō k nus kzu” t y0Jux znuyk “ nu xks gā kj ā znk nuyzkry. | zs uyz i gk “ gy zqkt zu g' uō nkzā m ā lki zkj ŌXnks kj ō grj kvgzs kt z znk nuyzkr” gāj kt y. znk yki | xā gt j uznkxy| vvuxzyzgl| j ō glgh| ru| y pūh qkkvā m znk i gs v| y ā lki zait lkk. lumu” ā mgr Gu' ō g vvxuv xōz k s kgy| xky0

M VEY. h| yā kyy “ gy gy | y| gr| t zō znk lōyz ngr| ul Qgxi n. lumu” ā m” nō n k' kx gyvki z ul znk Yt ō kxyā: gi zō āky “ gy rklz ng “ ōkōE ygt ā yzā| zait .” k ng' k hkk t lōmzā m znk vgt j ks ō | t ākj r. gt j znki uuvkxg zait “ k ng' k hkk t xki kō ā mlxus gnyzqgnurj kxyul znk Yt ō kxyā: ngy hkk t ā yvāā nō

[k ngj zu mu ut rā k luxul xk m| rgxi rgyykyōXnk· j ō t uz i us k “ ānu| zi ngrkt nky h| zu' kxzō k “ kj ō u' kxi us k s uyzul znks gt j “ ki ul rj | l| t i zait ā y| i ng” g· zngzū| x gi gj ks ō i · i rk” gyt āhxugj r. gllki zkj 0

Xnk vgt j ks ō ngj s gj ki ut j | i zā mgt· luxs ul k-gs g xōq0 Qgt· | t ō kxyāky vuyzvut kj k-gs y. “ nōk uznkxy “ kx luxi kj zu i ut j | i z k-gs y ut rā kōXng y t uz” ānu| z i ngrkt nky gy znk v| grā: ul ā zōt kzykx ō k gt j i us v| z kx y· yzks ygk | t i kxgā j | xā mēnk vgt j ks ō 0

Hkyvāks | rzōrk i ngrkt nky luxs gryō ky. “ ks gt grkj zu i ut j | i z znk ut rā k kt zgt i k zkyz y| i i kyy| m· lux huzn Qgyzkygt j Hui zuxgrvxumgs s kyō ki ul rj qō qyzgz znk t k” gi gj ks ō ykyvāut . ut rā kōM ul rj rōk zu zngt qgrs · i urrkgr| ky ā znk W| zn Eyōgt Yt ō kxyā: lux znkō i uuvkxg zait j | xā mēnk yz ā mēz kyōM | yzgru zngt qgr znk mu' kxt s kt zy ul znk : Qks hkt g zait y ul VE EVG lux znkoi ut zā | kj y| vvuxz0

Pōk s gt · i ngrkt nky. znk vgt j ks ō zuu yngr vgyō k gy gt ā yzā| zait gk ruuqā mlux” gāj zu mudā m hgi q zu znk vxkvgt j ks ō zō ky gt j i xkzā m znk xuh| yz gi gj ks ō gzs uyvnkxk zngz VEY ngy i us k zu hk q t u” t lux gt j i ut zā | k zu v| xy| k q t u” rkj nk “ ānu| zhuxj kxy0

d x f u u Z u a - u

Ow ' d y xy

DECISION MAKING BODIES OF SAU

Governing Board (GB)

Xnk Ku' kx' d mFugj ul znk Wul znEyggt Yt ó kxya: *WEY+gy znk nomkyz vuró· gt j j ki gaut/s gqat mgl znuxa: ul znk Yt ó kxya: . “ nò n u' kxykky znk gi gj ks ó. gj s d gyzgò k gt j l d gt i grrs gt grks kt zul znk Yt ó kxya: 0 Mli ut ygyzul

z' u s ks hkylxus kgin ul znk WEVVG Qks hkx Vgzk. t us d gzkj h· znk xkyvki zò kQks hkxVgzk. d znks gt tkx vxyki xhkj d znk Vkm rgzaut y0

Academic Council

Xnk Ei gj ks ó Gu|ti ó *EG+gy znk i| yzuj ggt ul gi gj ks ó gi zò adky ul znk WEY0 M gy 'kyzkj “ an vu” kxy zu xki us s ktj kyzghròns ktz gt j ghurazut ul Jgi| rzky. Hkv gxs kt zy. Mlyzaj zaut y. Mzkk/ j gi orá gx Vkykxi n Gkt zky. Wki grrkj Pghuxgzuxky gt j Pòhxgdky. kzi 0Xnk Ei gj ks ó Gu|ti ó gy gryu 'kyzkj “ an znk vu” kxy zu xki us s ktj zu znk l-ki| zò k Gu|ti ó znk ixkgzaut gt j ghurazut ul zkgi n d m vuyzy d znk Yt ó kxya: . j xglz xkm rgzaut y xkngj d m gj s gyaat gt j k-gs d gzaat y. gvva d zs ktz ul k-gs d kxy. i ut lkxs ktz ul nut uxgx j kmkky gt j d yzaj zaut ul lkru” ynòy gt j yi nurgynòy kzi 0

Xnk Ei gj ks ó Gu|ti ó j kròhxgzkj | vut 'gxau| ygi gj ks ó s gzzkxy j | x d m znk vkxaj | tj kx xkvuxz0 Wks k ul znk s vuxgt z s gzzkxy i ut yò kxkj h· znk Gu|ti ó d ay s kkd d mnkj ut 44Q3@242 gk gylumu” y=

Q gzzkxy xkrgz d m zu y| hs gyaat ul Q Tnò0Wt uvyky h· yz| j kt zy ul hgzi n 4239

Q gzzkxy xkrgz d m zu y| hs gyaat ul Tnò0Wt uvyky h· yz| j kt zy ul hgzi n 4236. hgzi n 4237 gt j hgzi n 4238

Xark ul Xnkyky ul Tnò0yz| j kt zy

Emui gzaat ul TnHy| vkx' gxy

Qkt zuxylux Q W Qgt j TnHy| j kt zy

Vki ut yzaj zaut ul znk Fugj ul Vg| j dky ul Jgi| rz ul i ut us ó y

Q gzzkxy xkrgz d m zu d luxs gzaat ut W nurgynò 1 J d gt i grrW v vuxz

Hki rgzaut ul xky| rzy d xkyvki z ul yz| j kt zy ul Q gyzkxy. Q Tnò0gt j Tnò0T xumgs s ky

Vk' gkj QW i ul xky d Jgi| rz ul Pòk W d t i ky gt j Fuzki nt urum *J PWF+

Gngt nky d znk i ul xky i | xò | r| s ul Q W 0 Gus v| z kx W d t i k

Gngt nky d znk i ul xky i | xò | r| s ul TnH Gus v| z kx W d t i k

Vk' gkj TnH i ul xky d Jgi| rz ul Pòk W d t i ky gt j Fuzki nt urum *J PWF+

Vki ut yzaj zaut ul znk Fugj ul Vg| j dky ul znk Jgi| rz ul Pkng r Vg| j dky *J PWF-

Vkyz| i z| x d mul i ul xky d Jgi| rz ul Pkng r Vg| j dky *J PWF-

Vkyz| i z| xkj 1k' gkj 1Rk” i ul xky lux Q E 0 gt j Tnò0 v xumgs s ky ul Jgi| rz ul Wui grr W d t i ky

Vki ut yzaj zaut ul Fugj ul Vg| j dky ul Jgi| rz ul Wui grr W d t i ky

Ej s gyaat W nkj | rkluxznk Ei gj ks ó Wkyaut 4242/43 Juxs gzaat ul Hui zuxgr Gus s azkk lux Tnò0yz| j kt zy h· Jgi| rz ul Pòk W d t i ky gt j Fuzki nt urum *J PWF+

Es kt j s ktz d F· krg” y xkrgz d m zu Vkm yz gzaat ul Vg| j kt zy

Executive Council

Xnk l-ki | zók Gu|tiá *G+ul WEY o znk vxas k huj-
 xkyvut ydnk luxs gpxk-ki | zók j ki gaut yOFkyó ky ykt aix
 | | ti zait gpxyul znk WEY. znk l Gngylu | xs ks hkxy" nu gpx
 t us á gzkj h- znk WE EVG s ks hkxyzgzy h- xuzgaut OXnk
 Txyó kt zul znk WEY i ngoy znk l Gs kkdá myOXnk l-ki | zók
 Gu|tiá o' kyzkj " áen znk vu" kxy zu s gqk zkgi ná mgt j
 uznkx ykt aix gj s á gyzgzó k gvvud z s kt zy ut znk

xki us s kt j gzaüt ul znk ykri zait Gus s ázkky. ló- znká
 ks ur| s kt zygt j j klá k znká j | zkyOXnk l-ki | zók i u| ti á
 o' gryu ' kyzkj " áen znk vu" kxy zu s gá zgd j gi ávra k
 gs ut myz znk zkgi ná m gt j tut /zkgi ná m yzll á
 gi i ux gt ik " áen V| rky. Vkm| rgzait y gt j F- krg" y gt j
 s gt grnk gt j xkm| rgzk lá gt i ky. gi i u| t zy gt j uznkx
 gj s á gyzgzó k gll goyul znk Yt ó kxyá: 0

Finance Committee

Xnk Já gt ik Gus s ázk k ul znk Yt ó kxyá: i ut yó kxy znk
 gt t | gr gi i u| t zy. lá gt i á r kyzas gzk y gt j k- vkt j á l xk
 vxuvuygry OXnk gt t | gr gi i u| t zy gt j kyzas gzk y ul znk
 Yt ó kxyá: . j | r. gvvxu' kj h- znk Já gt ik Gus s ázk k. gpx
 y | hs ázkj zu znk l-ki | zók Gu|tiá lux gvvxu' gr O Xnk
 Já gt ik Gus s ázk k j krnkxgzkj | vut ' gpx | y á vuzgt z
 oyy | ky vkxzgd á m zu znk Yt ó kxyá: ý lá gt i ky á áy
 s kkdá myOXnk Já gt ik Gus s ázk k i u| rj t uz s k k z j | á m
 znk- kgx | t j kxxkvuxz0

SAU Administration

WEY o' g xkrzó kr . u | t m Yt ó kxyá: gt j gz vkykt z
 gj s á gyzgzó k y | vvuxz o' vxu' ó kj h- g yqkrkzgr yzll O
 G | xkt zr . znk k gpx ut r. 64 t ut /zkgi ná mks vru- kkyá znk
 Yt ó kxyá: 0 Xnk Gngav kxyut ul WE EVG o' znk Zgaxul znk
 Yt ó kxyá: 0 TxulOVgt pgt O | s gx Qungt z- o' znk Txyó kt z
 *S ll m á ul znk Yt ó kxyá: á E z z nk Jgi | rz- rk' kr. gj s á gyzgzó k
 xkyvut ydn á zky gpx gryu yngk j h- znk Hkgt y ul ' gpx | y
 Jgi | rzky O H x O E á á á g r á g z nk Vkmoyzgxul znk Yt ó kxyá: 0



KEY UNIVERSITY FUNCTIONARIES



T T
Ny e™ z™ 3/™ 8@5D5 70
P w™ 3R Ph
/™ 885B5 70



u Tr t
Ny e™ z™ - Pad
/ 885D5 70

Tuw y Ry u y



T t
R™w 3Thh/ : 75C5 70
P w™ 3R y
/™ : 85C5 70



u T
R™w 3Tb Ph



u T
R™w 3TS
/™ 785E5 70



Tr
R™w 3TS
/ 8@5B5 70



u T
N y w™R™w 3TahO



u T
N y w™R™w 3Tah



u T
P w™ 3R Ph
/ 875B5 70



T
P w™ 3R h
/™ 7C5@5 70



u Tu
N y w™R™w 3h z™

Ox u . T u wy



u Tr
g™ w



T u
R™y T w y™



Tu y
h™™ z S™™ S™y™S™™/P 0



T
S™y™S™™/P 0



Tr
R 5g™ w



T
R 5g™ w



Ts
R 5g™ w



T
N SR 5Vhh



T s
N SR 5W w y™



u T y
N SR 5Wi



T
N 5g™ w



Ts
N 5g™ w



Tr
egd



u T
b™z yw d y™



Tr r
N Sax w w

UNIVERSITY FINANCES

Xnk i gvagr i uyz ul kyzghrona mznk Yt o kxya: kyzas gzkj uxona gr: zu hk gv vxu-a gzk: . YW%522 s orait luxznk loyv vngyk. qzu hk huxt k h- znk Ku' kxt s kt zul Mj agyv kxznk Mzkk/Ku' kxt s kt zgr gmkkk ktz ut znk Wu| zn Eyagt Yt o kxya: OM gj j aaut . znk Ku' kxt s ktzul Mj ag ngy gryu vxu' g kj lxxk ul i uyz ghul z322 gi xkyvruzul rgt j a Wu| zn Hkmoluxykzda m| v znk s ga i gs v| y ul znk Wu| zn Eyagt Yt o kxya: OS vxxgza ut gr i uyz ul x| t t a mznk Yt o kxya: q yngxkj . ut . kgx/zu hgyq. h- gr WEVGQks hxxVzgzkygt j

znk i ut zdx| zaut ul a j o g | gr Qks hxxVzgzkygt mu' kxt kj h- g luxs | rg zngz ngy pa d z: hkkk k' ur' kj h- znk komz i ul t zdky0

Xnk Ggvagr gt j S vxxgza ut gr F| j mzk kyzas gzkyluxznk . kgx 4242 gpk zu znk z| t k ul YW%75Q72 s orait gt j YW%; 07: s orait xkyvki zo kr-0



MAJOR HIGHLIGHTS OF THE YEAR

Q y y u? 5gOi Q u Ty

Xnk WEY gt t | gr i | rzl xgr lkyzo gr " gy uxngt o kj ut 4/5 Q gxi n. 4242 gyGukxkt . g4Q0M" gygt k-| hxxgt zgt j ' dnxgt zk' kt zoXnk lkyz yzgzkj " an znk romzkt a mul lkyzo k rgs vy h- znk Hx EZW Vgs kyn Gngt j xg. Ei za mTkyo kt z WEY. a znk vxykt i k ul znk Hkgt yul ' gxa| y lgi | rzkyQd" gylumu" kj h- gygxuj xki agrh- Hx Gngt j xas g Vu- ." nu vrg- kj znk Emgo gFag' gr gt j Ogloxnngy. gi i us vgt dkj h- Tgt j a Yj ngoQg- | s j gx ut zghrg0Pgzkx Xgt . g Vlkzn gt j Txul Vgt g- Gngz x kj os kys kxokj znk gl j dkt i k " an znkox yuru yut my. lumu" kj h- gt kt znxgrda m vxluxs gt i k ul Fngxgt gz gs j gt i k h- Ej a g V0Xnk " nurk Eqhgx Fng" gt i gs v| y i gs k grok " an i | rzl xgr gi zo adky ul ' gxa| y n| ky gt j yul t j yu' kxznkz' uj g- yul znk lkyzo

Jux znk t k-z z' u j g- y. znkxk " kxk ' gxa| y gi zo adky a i r| j a m yzgt j | v i us kj . uvkt s o. lgynt ynu" . lgi k vga za m gt j i us vkzao k k' kt zyraek j gt i k. ya ra mgt j vukx- . zu s kt zaut g lk" OE hgt j gryu vxluxs kj gt ki rki zo ykz/rqz s | in zu znk kt pa- s kt zul znkyz| j kt zy0

gOi g Ty

Xnk WEY Ett | gr Wuxzy Jkyz " gy nkrj lxxs 37 Jkhx| gx- zu 48 Jkhx| gx- 4242 gs g yzkt zn| ygyzo vgzao vgzaut gt j vgyaut gzk i us vkzaut gi xuyy s | rzarlk yvuxza mj gi orat ky / Xghrk Xkt t q.

Fgj s a zut . Ggxus . Gnky. Juuzhgr. Fgyqkzhgr. Zurk- hgr gt j Gxo qkzo Xnk Wuxzy Gus s azkk s gt gnkj zu v| r rull g " kr/ s gt gnkj lkyzo

W y u u a -y [u' u'yRu Qyvu

Paek k' kx . kgx znk Mzkkz gza ut gr Quznkx Pgt m| gnk Hg- " gy uhykx kj a WEY ut 43 Jkhx| gx- 42420 Xngy . kgx | t o| k



gzgzgi zaut " gy znk vuyzxs gga mi us vkzaut ut znk znks k ul rgt m| gnk gt j yvkki n gt j gt k-i r| yo k XWhoz s gj k lux zny



ui i gyaıt j kyort kj " an gi us ha gzaıt ul Whgnkkj Qđ gx xkyvki z zu znk rgt nř gnk s gze xy gt j rgt nř gnky ul VE EVG i ul t zdkyOS t znk s đ t amzul 42 Jkhđ gze . yz j kt zyullkkj lru xgrzdđ | z k zu znk zks vuxgze Whgnkkj Qđ gx xks ks hkdđ mznk i ut zdđ | zait y ul rgt nř gnk s gze xyOS t znk k' kt đ mul 43 Jkhđ gze 4242. i | rđ xgr k' kt zyuuq vrgi k " nkxk VEY yz j kt zyvkxluxs kj yut ny. vukze gt j j gt i k xkvxykt zđ mznkoxu " t rgt nř gnk gt j i | rđ xkOVi ut j / . kgxs gyzkxy yz j kt z Juxngj gt j Et grogı i nukj znk vxumgs 0 X" u lgi | rz s ks hkxy. HxHkkvg Vđ ng gt j Hx_] hn xgpTuqngxkr " kxk gryu vxykt z đ znk vxumgs 0 Xnk. nomromzky znk s vuzgt i k ul vxgi zydđ mznk Quznkx Pgt nř gnk Hg đ znkox yvki nkyOS t hknđ ul yz j kt zy. Eynlgw] . .gs gt Gnu" j n | x "QTđ Ggt j đ gzk+znk vrgt t kxgt j ut k ul znk uxrgt oky ul zny k' kt z đ ngy yvki n ks vngyokj znk t k kj lux g vks gt kt z yzđ i zđ xk ul Whgnkkj Qđ gx đ znk s gđ i gs v | y ul VEY 0 Xnk vxumgs kt j kj " an g' uz ul zngt qy yvki n ul znk i | rđ xgr i us s azkk s ks hkxy vxykt z đ znk vxumgs / Eynon Q | s gx TxgpxzQ gmg. E pğg Oxınt gq | s gxgt j Ehj | rQ g rđ 0



avxu' đ kyı ut ' kt đ t i k zu s gt . ul znuyk " nui us s | z k znu | m s k zu 0

Uy xy gy u d ' u

Xnk VEY Kkt j kx Vkt yzđ gzaıt Gus s azkk uxrgt okj g mkt j kx vřkj nk yort gđ x i gs vğort đ znk Eqhgx Fng" gt i gs v | y đ ' adđ m vkuvřk zu i us s az zu Kkt j kx l w | g rđ đ grr znkox kt j kg' uxy 0 Xnk vřkj nk zgkxy " kxk vxu' đ kj g mkt j kxhgj nk zu " kgx" an vxđ k 0 Xnk i gs vğort . i g xđkj ul z | t j kxznk nř đ gt i k ul TxulOHkkvg Vđ ng. Gngox VEY KWG. " gygvxzul gs u' k zu s gđk znk nkt j kx ykt yzđ gzaıt vxumgs s uxk vğzđ đ gzaux gt j đ i | ri gzk g lkkřđ mul xkyvut yđđđđ OKVG grut m " an Yt đ kxyz Gus vřgd z Gus s azkk gryu uxrgt okj g yzkkz vřg. Hgyzgd vkdıux kj h. Vř qns gt i n Xnk gzk ut 5 Qđ i n 4242 gze znk i gs v | y 0 Xnk yzkkz vřg. " gygynu | zu | z g rđđ yz " us kt gzuı adky gt j azgzks vzkj zu i xkgzk g" gđkt kyyut znk đ i xkgyđ mđ i đ kt zy ul i xđ k g rđđ yz " us kt đ ul xi ul t zđ gznus k. " uxqvrgi k gt j v | hrđ gpkgy 0 Xnk vřg. " gyj oki zkj h. WhavQgx" gngđ



by nyu V' -hyu

Xu xđ mđ znk Rk " _kgx znk Ei zđ mTxkyđ kt z VEY nuyzkj znk lgi | rz s ks hkxy gt j t ut / gi gt ks đ yzđ l zu g nom zkg gze znk Ju. kx Ekxg ul znk Eqhgx Fng" gt Ggs v | y 0 Xnk k " kxk g l k "



s vxus vzđ vkdıux gt i kyul yđ mđ mvukze gt j xk' kxy yvkrđ m i ngrkt nk h. znk lgi | rz gt j yzđ l 0

yP y | u w

Xu lgi azgzk znk loyz s ak gt j rgyz s ak i ut t ki zđđ. lux znk yzđ j kt zy. yzđ l gt j lgi | rz s ks hkxy. đ gt kt' out s kt zgr. lxdđ j r. " g. gt k/hđk yk' đ k " gyrgj t i nkj h. HxOEZWWgs kyn Gngt j xg. Ei zđ mTxkyđ kt z VEY gze znk EqhgxFng" gt i gs v | y ul znk VEY ut 46 Jkhđ gze 4242 0 Xnk hgzkx uvkxgzkj k/hđky i gt hk gi i kyykj znu | m gs uhok gvv gt j ut ki gt zgđk znk k/hđk zu i us s | z k zu t kgxh. s k zu yzđđđ y. " nkxk j ui qy gpk vxu' đ kj 0 Xnk k/hđk yk' đ k gryu ngygt g xgt nks kt z " an HkmoQ k zu gt j

Admissions

Xnk vxui kyy ul gj s gyaıt gze Wđ zn Eyđt Yt đ kxyz. hkrđt " an znk rgj t i nđ mul g yui đrs kj đ i gs vğort gt j gt gt t ul t i ks kt z đ s gpx tk " yvğvxy ul grr znk VE EVG i ul t zdky 0 -ng | yz đ k đ luxs gzaıt j kzgđđ mznk gj s gyaıt vxui kyy. krđđđđđ. i xđkxđ. lkkj hgi qs ki ngt gys . j kzgoy ul gj s gyaıt ' ur | t zkkxy gt j uznkx xkrđkj đ luxs gzaıt " kxk | vruđj kj ut znk Yt đ kxyz. " khyzđ 0 Ggt j đ gzy i gt i us luxzghr. xkrđkj gt j gvvř. ut rđ k luxs gt. " nkxk đ znk " uxj 0 l gi n gvvřđ gzaıt " gy znu | m r. yi xđ zđ okj zu kt y | xk zngz gvvřđ gt zy s kz znk s đ s | s w | g rđđ gzaıt zu gvvkgluxznk kt zgt i k zky 0 E j s ai g j yluxznk kt zgt i k zky " kxk s gj k g' gđhrk zu j u " t ruđj lux znk ut rđ k gj s gyaıt vuzgr h. znk krđđđđ gvvřđ gt zy 0 E r gvvřđ gt zy " kxk đ luxs kj h. ks gđ 0 E i us s ut kt zgt i k zky " gy i ut j | i zkj yđ | rgt kul | yr. đ : VE EVG i ul t zdky ut 34/35 E | nř yz 42420 St k zky i kt z k kgi n " gy ykz | v đ Elmgt gzygt *Ogh | r+ Q grj đ ky *Q grk + R kvgr *Ogzns gt j | + gt j Wđ Pgt qg *Gurus hu(Nđ | s g+ " nđk z " u i kt zky kgi n " kxk ykz | v đ Fgt mřj kyn *Hnggg (Gnazgmı t m F n | zgt *Xnđ vn | . Ogt m | t mđ gt j Tgqgyzgt *Ogxi no (Pgnuxk-đ Gut yđ kđđ mznk rđnrk t | s hkxul i gt j đ gzy gt j znk " đ k nkumg v nđ g yvđkj . 47 zky i kt zky " kxk ykz | v đ j đ lkkz zı adky đ Mj đ ' đ E ns kj ghgj . Fgt mřruđ. Fnuvgr. F n | hgt kyn " gx Gngt j đ rđxn. Gnkt t go Gui nđ . Hkmo Kug. K | " gngzo L . j kxhgj . Mj uxk Nđ | x Ourqgzg. P | i qt u " . Q | s hgo Tgt g. T | t k. Vđ | x Vgt i no Wđ g rđx Vř xgz Xđ gt j x | s . Zgxt gyo gt j Zđ gm Quyz VE EVG Qks hkx Vřgzky ngj gvvud zkj řt us đ gzkj Ruj gr S l lđ kxy zu nkrv

gt j đ z k x g i z " an VEY ut grrs gzkxy xkrđkj zu znk i ut j | i z ul znk i us s ut kt zgt i k zky 0 Xnk Yt đ kxyz. xki kđ kj | r i uuvkxgzđt l xus znk Ruj gr S l lđ kxy đ kgi n Qks hkx Vřgzk 0 E zuzgr t | s hkxul ; ; 2 ; i gt j đ gzy gvvřđkj luxznk s gyzkxy gt j j ui zuxgzk vxumgs s ky 0 S | z ul znkyk. 8974 gvvkğkj đ znk kt zgt i k zky 0 S l l kxy ul gj s gyaıt " kxk ykt z zu 699 i gt j đ gzy ul z ul " nđ n 473 lđ grr. pđđ kj 0 Wđ zn Eyđt Yt đ kxyz. yzđ z. lumu " y g xki us s kt j kj w | uzgy. yzks zu kt y | xk xkvxykt z gzaıt ul yzđ j kt zy l xus grr znk Qks hkxy Vřgzky ul VE EVG 0 Q kxaz rgyz gpk vkvğkj i ul t zđ / " ok gt j znk i us vkzđđđ g ut r. gs ut myz i gt j đ gzy " anđ kgi n i ul t zđ 0 Wk gzy rklz | t lđrkj luxgt . i ul t zđ gpk lđrkj h. yzđ j kt zy l xus uznkx i ul t zdky ut s kxzhgyg. gvy kx VEY x | rky 0

Q 5 y uz xy z gOOf Q
Q y H

- Mj đ = 72 &
- Tgqgyzgt = 32 &
- F n | zgt = 6 &
- R kvgr = 6 &
- Gul t zdky ul zyđ k VE EVG = 32 &
- Fgt mřj kyn = 32 &
- Elmgt gzygt = 6 &
- Q grj đ ky = 6 &
- Wđ Pgt qg = 6 &



g u y y - ' -y v y z xy - u yx4 z y yx ux u x - z u yx x z y y
 a u y [y y w y x ' -y O u x y w n y u ?9?95? :

g w	te			te			te			sst			t			t			t					
	3	4	3o	'	4	3	'	4	3	3t	4	3	3t	4	3g	e	t	e	Applied	Ofered	Joined			
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	u g			u g			u g			u g			u g			u g			u g			u g		
s	Pfe	Of	Oa	PNP	Pg	f	ge	d	d	dN	a	S	ea	e	a	PNa	S	S	gS	e	e	RML	MR	ID
t	S	O	N	SN	g	d	Pa	e	d	aS	g	g	OS	S	P	h	a	S	e	P	O	CDP	ED	DI
t	S	O	O	SN	P	O	a	P	P	N	N	N	Og	a	S	PP	OS	P	Og	e	e	RL	DP	CL
	N	N	N	N	N	N	O	N	N	O	N	N	N	N	N	N	N	N	N	N	N	D	B	B
	P	O	N	OO	d	P	h	O	O	f	S	S	Oa	d	d	f	a	a	P	O	O	LD	DB	CM
	O	N	N	f	O	N	a	P	O	e	O	O	S	P	O	g	S	S	a	O	O	EE	CB	N
	N	N	N	P	O	N	P	O	O	O	N	N	O	O	N	P	N	N	N	N	N	P	E	C
	DPL	DB	CL	DPD	IL	CL	CEB	CN	CL	CBP	CM	CL	CCE	DC	CL	DLD	DN	CL	CCE	CM	CL	CDPE	CMD	CBL
	OShe	dS	Od	OhPe	Pf	Od	adP	PP	Od	ege	Pa	Od	fPN	aS	Od	OaO	dh	Oa	dhN	aN	Od	LRCC	DMP	CBI
	N	N	N	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	D	B	B
	CMPC	NE	EB	DDCB	ND	EB	LPD	ER	EB	NRI	IB	EB	PEE	M	EB	ERE	PM	DR	NBE	LM	EB	NCRM	IEB	DBR

g u y y - ' -y v y z xy - u yx4 z y yx ux u x - z u yx x z y y
 R w u [y y w y x ' -y O u x y w n y u ?9?95? :

g w	wh			wh			wh			wh			wh			wh			wh					
	3	4	3o	'	4	3	'	4	3	3t	4	3g	e	t	e	Applied	Ofered	Joined						
e	DBDB8DC			DBDB8DC			DBDB8DC			DBDB8DC			DBDB8DC			DBDB8DC			DBDB8DC					
	u g			u g			u g			u g			u g			u g			u g					
s	SO	O	O	af	O	O	OO	O	O	OO	N	N	OO	N	N	OS	P	O	h	N	N	CEE	L	I
t	d	N	N	h	O	O	Oa	O	O	OO	P	P	h	S	S	a	P	P	S	O	O	LL	CB	CB
t	N	N	N	N	N	N	O	N	N	O	N	N	O	N	N	N	N	N	N	N	N	E	B	B
	N	N	N	O	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	B	B
	f	P	P	OP	O	O	S	N	N	P	N	N	h	N	N	P	N	N	a	P	P	ER	L	L
	P	N	N	P	N	N	P	N	N	S	O	O	O	N	N	O	N	N	O	N	N	CD	C	C
	N	N	N	S	N	N	a	O	O	N	N	N	O	N	N	O	N	N	N	N	N	R	C	C
	IL	E	E	NI	E	E	EL	E	E	DP	E	E	ED	E	E	DC	I	E	CN	E	E	DLD	DD	DC
	Pgd	e	S	agS	S	S	Sfd	S	S	PPP	S	S	adP	S	S	OOe	a	S	aPg	S	S	DEM	DL	DC
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	B	B	B
	EEB	R	M	LLN	M	M	ICB	M	M	DLB	M	M	IPI	M	M	CEN	P	M	IIL	M	M	DMCE	IN	ID

Q u zOx yx g xy myu k y5?9: Gu x ?9?9

Q	O a u y Ox					
	Ox	yx	?9: G	Ox	yx	?9?9
Elmgt qzgt		5:				64
Fgt mgj kyn		44				46
Fn zgt		38				37
Qgrj ó ky		2				2
Rkvgr		34				38
Tgqozgt		8				9
WloPgt qg		5				3
h u uv y		GE				:9C
Mj og		324				326
Mzkxt gzwt gr		2				2
h u		:GG				?9G

Q u zOx yx g xy myu k y5?9: Gu x ?9?9

Q	O R w u Ox					
	Ox	yx	?9: G	Ox	yx	?9?9
Elmgt qzgt		5				6
Fgt mgj kyn		:				32
Fn zgt		3				2
Qgrj ó ky		2				2
Rkvgr		8				7
Tgqozgt		3				3
WloPgt qg		3				3
h u uv y		?9				?:
Mj og		3;				43
Sznkxy		2				2
h u		AG				B?

Scholarships/Freeships

Xnk lumu" d m WnurgxynovyJxkynovy Wv vuzx gk g' gaghrik zu yz j kt zy gj s azkj zu VEY d znk Ei gj ks o Wkyaut 4242/43=

d y x y g w - u - O a O 7 a g w u x [[a x y H X " u yi nurgxynovy gk ullkxkj lux kgi n gi gj ks o vxumxgs s k=ut k zu znk yz j kt z yi ux d m znk nomkyzs gxy d znk l t zgt i k Xky d znk Mj ogt rozgt j znk uznkx zu znk yz j kt zy ux d m znk nomkyzs gxy d znk t ut / Mj ogt roz *Wu| zn Eyagt i ul t zdky uznkx zngt Mj ogt+ " nu la d gr- pa d y znk Yt o kxy d 0, Xnk yi nurgxynovy ullkxkj lux z" u . kgxygt j " or hk xkt k" kj d znk yki ut j . kgxy| hpi z zu ygzylgi zux vxluxs gt i k d loyz . kg d Hkzgay gk gy lumu" y=

Xnk Txyo kt zyi nurgxynovy i us vxoky=] aout lkk" go kx- L uyzr lkk" go kx *d gvvro ghrk+ M V 9.222 vkxs ut zn gy ro d m gmu" gt i k OE" gj kky " or gryu xki k o k gt gs ul t z ul M V 32.222 *gvvro ghrk zu t ut / Mj ogt yz j kt zy+ gt j V| vkky 7.222 *gvvro ghrk zu Mj ogt yz j kt zy+ gy g d Vgz/ v Emu" gt i k g z znk hkm d t d mul znk x zkt | xk yu gy zu nkrv s kkvzgzul znk d huj t j z xg' kri uyzgt j huuv| xi ngyky kzi Ogt j gy g d gi q/ v Emu" gt i k g z znk kt j zu i u' kx znk

ul zhu| t j z xg' krgt j k-i kyyhgmgkn i uyzkyvki zo kr 0

Xnk i ut za | g z a u t ul znk Txyo kt zyi Wnurgxynovy lux znk y| hykw| kt z . kgxy y| hpi z zu znk xki o dkt zy uhzgd d m znk GKTE t uz rky zngt 7Q *W d t i k yz xgs Fauzki nt urum . Gus v| z x W d t i k gt j Qgzny+ gt j 6O *Rut /y i d t i k yz xgs I i ut us o y . Wu i aurum . Mzkt g z a u t gr Vkrz a u t y gt j Pg" +gz znk kt j ul znk 4t j ykx kyzk d m znk i ut i k x t kj g" gj kkl g o y zu yki | xk zns d a s | s GKTE . znk Txyo kt zyi nurgxynovy yngr h k j o i ut za | kj O Xnk i ut i k x t kj yz j kt z s g . g v v r . lux VEY J x k k y n o v O L u " k' k x g" gj ul VEY J x k k y n o v o i ut za n k t z ut y g z y l . d m z n k x k w | o k s k t z y g y s k t z a u t k j d z n o j u i | s k t z o

g O o f Q W x u g y Y v y y g w - u - z a u y u x d - R d ' u y H V E E V G / M j o g W o k x N h o k k W n u r g x y n o v y * W W u - d y z a j z k j h . z n k Q d g z x - u l l - z k t g r E l l g o y * Q I E + K u ' k x t s k t z u l M j o g . g k u l l k x k j l u x Q g y z k x y g t j H u i z u x g r r k ' k r y z j d y z u s k x a u x u | y y z j k t z y i u s d m l x u s u t k u l z n k l u m u " d m r o z u l k r o n t h r k i u l t z d k y y v k i d d k j h . z n k Q I E = E l m g t o z g t . F g t m o j k y n . F n | z g t . Q g r j o k y g t j R k v g r Q I E n g y s g j k g' g a g h r k 9 7 W W y i n u r g x y n o v y l u x Q g y z k y r k ' k r y z j k t z y z u V E Y O X n k Q I E n g y r g o j u " t



j k z g o k j i x a k x o j x k n o j d m z n k g" g j u l z n k y k y i n u r g x y n o v y 0 W W y i n u r g x y n o v y g k g" g j k j h g y k j u t s k x a d e r y u . 7 2 & u l W W y i n u r g x y n o v y g k x k y k x' k j l u x l k s g r k i g t j o g z k y 0 M i g y k . z n k x k g k t u z y l l o d k t z t | s h k x u l l k s g r k y z j k t z y . z n k t z n k y k y i n u r g x y n o v y s g h k g" g j k j z u z n k s g r k y z j k t z y W W y i n u r g x y n o v y g k m o k t l u x z" u . k g x y g t j z n | y . t u l k y n W W y i n u r g x y n o v y n g r r h k g" g j k j d z n k y k i u t j . k g x u l g Q g y z k x y v x u m x g s s k O L u " k' k x g W W y i n u r g x y n o v i g t h k j o i u t z a | k j g l z k x z n k k t j u l z n k l o y z . k g x o d g y z j k t z l g o y z u s g d z g d z n k x k w | o z a k G K T E g y j o i | y y k j h k r u " 0

O u x z g y g w - u - T n y u a u y x y H E v v x u - a s g z k r . 5 7 y i n u r g x y n o v y * l o k y i n u r g x y n o v y v k x v x u m x g s + " o r h k g" g j k j 0 M k g i n v x u m x g s s k . u t k y i n u r g x y n o v " o r h k g" g j k j z u z u v / x g t q d m y z j k t z y d z k s y u l z n k a v k l u x s g t i k d z n k k t z g t i k k - g s d g z a u t y l x u s k g i n u l z n k k r o n t h r k i u l t z d k y " a n z" u z u z n k k y i n u r g x y n o v y g" g j k j z u l k s g r k i g t j o g z k y 0 M z n k k g k t u z y l l o d k t z t | s h k x u l i u l t z x k v x k y k t z g z a u t y . z n k t z n k y i n u r g x y n o v " o r h k n o k t z u z n k t k - z x g t q n u i j k x o x k y v k i z o k u l " n o n u l z n k k r o n t h r k i u l t z x * y + n k h k r u t m y z u 0 X n k y i n u r g x y n o v y s g h k k - z k t j k j d z n k y k i u t j . k g x v x u ' o k j z n k g" g j k k y y k i | x k g s d a s | s G K T E u l 7 Q * W d t i k y z k g s F a u z k i n t u r u m . G u s v | z x W d t i k g t j Q g z n y + g t j 6 O * R u t / y i d t i k y z k g s I i u t u s o y . W u i a u r u m . M z k t g z a u t g r V k r z a u t y g t j P g " + 0 M z n k i u t i k x t k j g" g j k k l g o y z u y k i | x k z n s d a s | s G K T E . z n k W W y i n u r g x y n o v y n g r r h k j o i u t z a | k j 0 X n k i u t i k x t k j y z j k t z s g . g v v r . l u x V E Y J x k k y n o v O L u " k' k x g" g j u l V E Y J x k k y n o v o i u t z a n k t z u t y g z y l . d m z n k x k w | o k s k t z y g y s k t z a u t k j d z n o j u i | s k t z o

Xnk W W W y i n u r g x y n o v y i u s v x o k y =] a o u t J k k " g o k x - L u y z r J k k " g o k x - r o d m g m u " g t i k u l M V 9.222 vkxs ut zn *Q g y z k x y r k' k r v x u m x g s s k y + u x M V 47.222 vkxs ut zn *T n H v x u m x g s s k y - o E " g j k k y " o r g r y u x k i k o k g t g s u l t z u l V | v k k y 32.222 g y g d V g z / v E m u " g t i k g z z n k h k m d t d m u l z n k x z k t | x k y u g y z u n k r v s k k z v g z u l z n k a d h u j t j z o j' k r i u y z g t j h u u q v | x i n g y k y k z i . g t j g y g d g i q / v E m u " g t i k g z z n k k t j z u i u' k x z n k a u l z h u j t j z o j' k r g t j k - z x g h g m g n k i u y z k y v k i z o k r 0

g O i a y g w - u - O a O 7 a g w u x [[a x y H X " u VEY Qkxzy nurgxynovy gk g' gaghrik d kgi n gi gj ks o vxumxgs s k gt j yngr h k g" gj kj gy vkx znk lumu" d m i x a k x o j =

W x u H F g y k j ut znk kt zgt i k zkyz l x u s z n k s k x a r o z z n k z u v z" u y z j k t z y " o r h k g" g j k j " a n V E Y s k x a y i n u r g x y n o v y . " n o n k - i r j k y T x y o k t z y i n u r g x y n o v n u r j k x 0

b 5Wx u H F g y k j ut znk kt zgt i k zkyz l x u s z n k s k x a r o z z n k z u v z" u y z j k t z y " o r h k g" g j k j V E Y s k x a y i n u r g x y n o v y . " n o n k - i r j k y z n k n u r j k x y u l T x y o k t z g t j g t . W W y i n u r g x y n o v y . " n u l a d g r - p a d z n k Y t o k x y a z 0

Xnk y i n u r g x y n o v y g k u l l k x k j l u x z" u . k g x y g t j " o r h k x k t k " k j d z n k y k i u t j . k g x y | h p i z z u y g z y l g i z u x v k l u x s g t i k d l o y z . k g d H k z g a y g k g y l u m u " y =

VEY Qkxzy nurgxynovy s g h k x k t k" kj d z n k y k i u t j . k g x v x u ' o k j z n k g" g j k k y y k i | x k g s d a s | s G K T E u l 7 Q * W d t i k y z k g s F a u z k i n t u r u m . G u s v | z x W d t i k g t j Q g z n y + g t j 6 O * R u t / y i d t i k y z k g s I i u t u s o y . W u i a u r u m . M z k t g z a u t g r V k r z a u t y g t j P g " + 0 M z n k i u t i k x t k j g" g j k k l g o y z u y k i | x k z n s d a s | s G K T E . z n k V E Y s k x a y i n u r g x y n o v y n g r r h k j o i u t z a | k j 0 X n k i u t i k x t k j y z j k t z s g . g v v r . l u x V E Y J x k k y n o v O L u " k' k x g" g j u l V E Y J x k k y n o v o i u t z a n k t z u t y g z y l . d m z n k x k w | o k s k t z y g y s k t z a u t k j d z n o j u i | s k t z o

Xnk VEY Qkxzy nurgxynovy " o r i u s v x o k y =] a o u t l k k " g o k x - L u y z r l k k " g o k x * d g v v r o g h r k + M V 7.222 vkxs ut zn gy ro d m gmu" gt i k 0

g O i T u w u g v u y x w y w y u O a O 7 a g w u x [[a x y H W E Y v x u ' o k y z" u z v k y u l l a d g t i o g r y l v v u x z g z Q g y z k x y r k' k r z u j k y k x' d m i g t j o g z k y 0

30X| aout lkk - nuyzrlkk *d gvvro ghrk+ go kx- 7.222 M V y z o k t j v k x s u t z n g y r o d m g m u " g t i k

40X| aout lkk - nuyzrlkk *d gvvro ghrk+ go kx 0

Xnk y k g k u l l k x k j z u k i u t u s o g r . " k g q k x y z j k t z y j k v k t j d m u t z n k a l g s o d i u s k 0 X n k W n u r g x y n o v G u s s a z k k y n g r j z k x s d a z n k d i u s k r k' k r h . z g q d m a z u g i i u l t z' g x u | y l g i z u x y l i n g y v g y z v x g i z o k y l u m u " k j h . z n k | t o k x y a z u j z k x s d a k z n o j r k' k r . g v v r o g z a u t y x i k o k j . l | t j y g' g a g h r k k z i O X n k y k " o r h k j | r . t u z o d k j d j | k i u l x y k O W j k t z y " n u " o n z u g v v r . l u x V E Y J d g t i o g r y l v v u x s g . j u y u | v u t p a d d m z n k | t o k x y a z 0 X n k g v v r o g z a u t l u x V E Y l a d g t i o g r y l v v u x z y n u | r j h k g i i u s v g t o k j h . j u i | s k t z y z n g z o j r u y k z n k z u z g r l g s o d i u s k y l i n g y =

g + M i u s k z g - x k z j x t y h + E t d i u s k i k x z d o g z k o y l k j h . g m u' k x t s k t z h u j . l g n k t i .

i + E t . u z n k x j u i | s k t z " n o n o y g v v x u' k j h . g m u' k x t s k t z g n k t i . 1 h u j . 1 u l l o o g r z n g z i r k g r . y z g z k y z n k z u z g r l g s o d i u s k 0

Xnk lumu" d m j u i | s k t z y y n g r t u z i u | t z z u " g j y

vxu' g' d' m' grj' vxuul ul lgs a' d' ius k' gll' g' ay. rkzky
 gyl' kj' h' vx' gzk' ks' vru' kxy. hgt' q' gi' u' | t' z' yz' gzk' kt' zy
 | t' rkyi' uxuh' xz' j' 0

[xut' n' | r' j' g' i' nuy' x' k' ul' lgs' a' d' ius' k' i' ut' i' kgr' m' gt' -
 s' gzk' x' r' lgi' z' vk' x' g' d' m' z' u' lgs' a' d' ius' k' ux' y' | hs' a' z' d' m'
 lux' n' k' j' j' u' i' | s' kt' zy' s' g' g' z' z' gi' z' y' z' d' z' j' g' i' a' r' d' g' x' gi' z' aut' 0
 Xnkius' s' a' z' k' ks' g' x' l' k' xy' | i' ns' g' z' k' zy' u' VEY' g' T' xui' zu' 0

gOi h Tyy ku y z d-R g xy H Err TnH
 yz' j' kt' zy' ki' k' o' k' z' | aut' l' k' k' " g' o' k' x' 0

T u w u g z gOi z d-Rd ' u y H

G' | x' kt' z' r' . z' nk' l' d' g' t' i' a' r' y' | v' v' u' z' l' ux' T' n' H' yz' j' kt' zy' g' M' V'
 47.222' v' k' x' s' ut' z' n' g' t' j' g' g' g' x' j' k' j' zu' yz' j' kt' zy' t' u' z'
 x' ki' k' o' d' m' g' t' . q' d' j' ul' y' i' n' u' r' g' x' y' n' a' l' y' v' u' t' y' u' x' y' n' a' ux' N' V' J'
 y' | v' v' u' z' l' ux' g' n' k' t' i' d' y' r' a' k' Y' K' G' 1' G' W' M' 1' H' F' X' 1' M' Q' V' k' z' i' 0' u' x'
 y' a' s' a' g' x' g' n' k' t' i' d' y' a' u' z' n' k' x' V' E' E' V' G' i' u' | t' z' d' k' y' 0' E' t' . T' n' H'
 yz' j' kt' z' " nu' | t' j' k' x' z' g' q' k' y' x' k' n' j' r' g' x' u' l' | r' r' z' a' s' k' k' s' v' r' u' s' k' t' z'
 g' l' z' k' x' z' n' k' s' g' t' j' g' z' u' x' x' y' o' k' t' z' a' r' x' k' w' | o' k' s' k' t' z' n' o' k' t' a' V' E' Y'
 h' . r' g' " y' . y' n' g' r' i' a' s' k' j' a' z' k' r' . a' l' u' s' z' n' k' y' g' s' k' z' u' V' E' Y' g' y'
 H' k' v' | z' V' k' n' y' z' g' x' * W' n' u' r' g' x' y' n' a' y' + l' u' x' z' n' k' z' k' s' a' g' z' a' u' t' ul' z' n' k'
 l' a' g' t' i' a' r' g' y' y' g' z' g' t' i' k' 0

R u z gw- u - T yy - H M grr i gyky.
 yi' n' u' r' g' x' y' n' a' y' g' t' j' l' x' k' y' n' a' y' g' x' j' k' y' o' r' t' k' j' z' u' i' u' k' x' z' n' k' k' t' z' o' k'
 j' | x' g' z' a' u' t' ul' z' n' k' gi' g' j' k' s' o' v' x' u' m' g' s' s' k' z' u' " n' o' n' g' yz' j' kt' zy'
 g' j' s' a' z' k' j' 0' L' u' " k' ' k' x' x' k' t' k' " g' r' a' y' | h' y' k' w' | k' t' z' . k' g' x' y' +
 j' k' v' k' t' j' y' ut' y' g' z' y' l' g' i' z' u' x' . g' i' g' j' k' s' o' v' k' l' u' s' g' t' i' k' g' t' j'
 s' g' a' z' k' t' g' t' i' k' ul' n' u' yz' k' r' | t' o' k' x' y' a' z' j' o' i' a' r' a' k' . " n' o' n' " o' r' h' k'
 x' k' ' d' k' " k' j' g' z' z' n' k' k' t' j' ul' z' n' k' k' g' i' n' . k' g' x' 0' E' r' r' x' i' a' d' t' z' y' ul'
 y' i' n' u' r' g' x' y' n' a' y' g' t' j' l' x' k' y' n' a' y' s' | yz' z' n' k' x' l' u' x' h' k' x' n' j' r' g' x' a'
 g' z' z' k' t' j' a' m' i' r' g' y' k' y' g' t' j' s' g' q' k' | r' k' l' l' u' x' y' a' y' | yz' g' d' a' m' g' t' j'
 a' s' v' x' u' ' a' m' z' n' k' o' x' g' i' g' j' k' s' o' v' k' l' u' s' g' t' i' k' 0' Q' g' - a' s' | s'
 j' | x' g' z' a' u' t' ul' V' E' Y' T' n' H' y' i' n' u' r' g' x' y' n' a' " ul' r' j' h' k' 7' . k' g' x' y' 0

Jux' Q' yz' k' x' y' yz' j' kt' zy' l' a' yz' . k' g' x' y' i' n' u' r' g' x' y' n' a' y' " o' r' i' u' k' x' z' n' k'
 y' | s' s' k' x' ' g' i' g' z' a' u' t' v' k' x' u' j' g' z' z' n' k' k' t' j' ul' z' n' k' l' a' yz' z' " u'
 y' k' s' k' yz' k' y' 0' W' n' u' r' g' x' y' n' a' y' l' u' x' N' t' k' g' t' j' N' r' . z' u' i' ut' z' a' | a' m'
 yz' j' kt' zy' " o' r' h' k' j' o' h' | x' y' k' j' g' z' z' n' k' k' t' j' ul' N' r' . g' l' z' k' x' z' n' k' . x' k' /
 p' u' a' z' n' k' Y' t' o' k' x' y' a' z' 0' M' z' n' k' y' k' i' ut' j' . k' g' x' ul' g' r' Q' yz' k' x' y' r' k' ' k' r'
 v' x' u' m' g' s' s' k' y' . y' i' n' u' r' g' x' y' n' a' y' g' t' j' l' x' k' y' n' a' y' " o' r' i' k' g' y' k' g' z' z' n' k'
 k' t' j' ul' z' n' k' g' i' g' j' k' s' o' y' k' y' y' a' u' t' a' k' 0' k' t' j' ul' Q' g' g' t' j' " o' r' t' u' z'
 i' u' k' x' z' n' k' y' | s' s' k' x' ' g' i' g' z' a' u' t' v' k' x' u' j' g' z' z' n' k' k' t' j' ul' z' n' k' y' k' i' ut' j'
 . k' g' x' 0

d-R zy - z y y u u' y wy H TnH yz' j' kt' zy
 " nu' ng' k' w' | g' r' o' d' k' j' l' u' x' N' V' J' y' | v' v' u' z' l' ux' g' n' k' t' i' d' y' r' a' k' z' n' k'
 M' j' a' t' Y' K' G' 1' G' W' M' 1' H' F' X' g' t' j' M' Q' V' . u' x' y' a' s' a' g' x' g' n' k' t' i' d' y' g' t' j' l' u' x'
 y' v' u' t' y' u' x' y' a' u' z' n' k' x' i' u' | t' z' d' k' y' s' g' . g' g' o' ul' z' n' k' l' k' r' u' " y' n' a' g' y'
 v' k' x' z' n' k' z' k' s' y' g' t' j' i' ut' j' a' u' t' y' ul' z' n' k' m' x' g' t' z' a' m' g' n' k' t' i' d' y' 0
 L' u' " k' ' k' x' o' z' n' k' . x' ki' k' o' k' l' k' y' g' t' j' n' u' yz' k' r' g' r' u' " g' t' i' k' y' . z' n' k' y' k'

" o' r' h' k' x' ki' u' k' x' j' l' x' u' s' z' n' k' s' z' u' z' n' k' k' - z' k' t' z' ul' z' n' k' o' x'
 g' r' u' " g' t' i' k' 0

b xy w u u z w u - u u y y 6

[n' o' k' z' n' k' V' E' Y' n' g' y' g' r' o' h' k' x' g' r' v' u' r' o' . " a' n' x' k' n' g' x' j' z' u' g' " g' x' j' a' m'
 l' x' k' y' n' a' y' z' u' yz' j' kt' z' y' l' u' s' k' i' ut' u' s' o' g' r' . " k' g' q' k' x' l' g' s' a' d' y' . a'
 g' y' t' u' z' n' j' g' x' g' t' z' k' k' j' z' n' g' z' g' r' g' v' r' o' g' t' z' y' " o' r' t' k' i' k' y' y' g' x' a'
 x' ki' k' o' k' y' u' s' k' y' i' n' u' r' g' x' y' n' a' ux' l' x' k' y' n' a' 0' V' l' j' kt' zy' s' | yz' h' k'
 v' k' v' g' x' j' z' u' s' k' k' z' z' n' k' j' k' l' o' a' l' u' s' z' n' k' o' u' " t' y' u' | x' i' k' y' 0

R w u y H W w u y z u ' u - w u y u y - y y 4 y' u 4 y 5 u y w l - y x y w z - y d y x y y u 6

1 h z y w z zTM z w 6TM
 w z @ z w wTM TM 6TM w / : C Y 0
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TM zTM 5 STM wTM TM zTM wTM y y w yTM 3TM
 xTM TM w xTM w w zTM TM z wTM TM w w z 5 WTM
 w 3TM TM w w zTM TM w xTM TM zTM xTM TM
 y w TM TM yTM 5TM

O u k - z gw- u - T yy - O u x y x H

d y xy gw- u - zu' Q' yz' k' x' y' v' x' u' m' g' s' s' k' y' =
 M' V' 386.222' v' k' x' . k' g' x' * R' u' t' / M' j' a' t' yz' j' kt' zy' ?
 M' V' 37; .222' v' k' x' . k' g' x' * M' j' a' t' V' l' j' kt' zy' +

gOOf Qg y Y v yy gw- u -
 Q' yz' k' x' y' v' x' u' m' g' s' s' k' y' = M' V' 386.222' v' k' x' . k' g' x'
 Hui' z' u' x' g' r' v' x' u' m' g' s' s' k' y' = M' V' 5: 2.222' v' k' x' . k' g' x'

gOi a y gw- u - H W f : A9 099 y yu
R w u g xy T h zyy u y u x [' u u w y H M' V' 5: 2.222' v' k' x' . k' g' x'

gOi T yy - - y x H M' V' 352.222' v' k' x' . k' g' x'

gOi T yy - - y x H M' V' 92.222

SAU GOLD MEDAL

Xnk' Yt' o' k' x' y' a' z' g' " g' x' j' k' j' K' u' r' j' Q' k' j' g' r' y' g' r' u' t' m' " a' n' gi' g' j' k' s' o' h' g' z' i' n' 423: /42420' P' o' z' k' j' h' k' r' u' " g' x' k' z' n' k'
 Q' k' x' a' z' G' k' x' z' d' o' g' z' k' y' z' u' v' x' u' m' g' s' s' k' z' u' v' v' k' y' j' | x' a' t' m' z' n' k' K' u' r' j' Q' k' j' g' r' o' z' y' 0

bu y zg xy	d ' u y
Hkv gro Vgnk g	Q E O i u t u s o y
E qgt qyng F o y' gr	Q O W O F a i z k i n t u r u m
E j ' g o u z V h g s g	PPQ
Q j O V g m h	Q O W O E v v r d k j Q g z n k s g z o y
S h g g m g n 1 E - y n Q s g x Z g y n t k -	Q O W O G u s v z k x W d t i k
V a k - E r r g t [g m y	Q E O M i z k x t g z a u t g r V k r g z a u t y
Q g r t g Q u n g v g z g	Q E O V i a i a u r u m





STUDENT FACILITIES & SERVICES

Vc ghS[Ob R gdc f hgTOQMMWg

Wu| zn Eyagt Yt ó kxyæ: vxu' ó kynuyzkrig i us s uj gzaut zu ay yz| j kt zy ut g yngæd mhgyy0Vt| j kt zy lxus ul zyó k ul Mj ægt j HkmoR GV gæ mð kt vxklkækt i k0Xnk nuyzkrig gæ rui gækj æ yó k Eqhgæ Fng" gt gi xuyy lu| x lruuxy gt j gæ i | ækt zr nu| yd m67 mærygt j 327 hu. y0Xnkæ gæ ykv gægzk nuyzkrig lux hu. y gt j mæry0Et kt zæ k lruuxy j kj ó gækj zu gi i us s uj gæd mQTnæTnHyz| j kt zy0

a u u' y y zQ x5 G -ygOi wu 6

Xnk y| j j kt t k" yul vgt j ks ó æ Mj æ i ægækj i gukygt j znk gægs æ myæz gæut i ægækj vgt ó gs ut mænk yz| j kt zy gt j znk VEY lægzæ æ æ i gs v| y0F| zægzæ mænk yæz gæut æ zu i ut æur znk VEY zuv gj s æ gægzæxy yzæll gt j lgi | rz ngj ks kækt i. s kæzæ mygt j j ki ó kj znk lumu" æ mV6 Tÿ zu i ut æur znk yæz gæut hklux æ i ul rj kt zæx znk i gs v| y " nð n y| i i kyy| m. s gj k znk i gs v| y i u' ó /3; lækk | vzu j gæz0Xnk lumu" æ mV6 Tÿ" kæ yzæ æ zr lumu" kj =

- 3+ Ey æ yzæ i zæj h. znk mu' kæ s kt z znk i rgyyky " kæ y| yvkt j kj / i us vræzæ nui æj u" t /3 " gy lumu" kj 0 Vt| j kt zy" kæ t uz gmu" kj zu kt zæx ux mu ul z ul znk i gs v| y" ænu| z yvki ærvæx æyæut lxus znk Qkj ó gr S ll ó kx
- 4+ Qgyæy " kæ y| vvrækj zu znk yz| j kt zy gt j yzæll lxus znk | t ó kxyæ ngræz i kt zæ gt j s gj k i us v| ryux " ænæ gt j ul zyó k znk i gs v| y0
- 5+ Vt| zæ kxy" kæ s gj k g' gæghrk gæ kgi n yzæzæut ul znk yki | ææ. gæ znk k-æ gt j kt zægt i k gt j grr lruuxy0 Gnki qæ mul zæx vxægz ækul grr" nu kt zæxæj 0
- 6+ Vknj ræx s ut æææd m h. znk s kj ó gr zægs lux gt. yu| æ kul æ lki zæut " ænæ znk i gs v| ygt j æ s kj ægzæ vxki gj zæut " kæ zæqækt 0
- 7+ Et. yz| j kt z" nu " kæ yzæ æ mu| z ul i gs v| y" kæ t uz gmu" kj æ yó k znk i gs v| y.
- 8+ Ey znk rui æj u" t k-zkt j kj yz| j kt zy" kæ gj ' ækj zu mu nus k0Xnk gj s æ gægzæut gt j znk s kj ó gri kt zæ s gj k grr vxu' æyæut lux znk yglk æzæ æt æ m ul znk yz| j kt zy h. i ut zæi zæ mænk ks hgyydy ul znk yk' kt i ul t zæky. yvki ærlæmzy" kæ gægt mækj " æn znk nkrv ul znk ækyvki zó k Es hgyygy uxy ul znk i ul t zæky gt j yg" zu zngæ. zngæ znk yz| j kt zy ægi nkj nus k yglkr. gt j " ænu| zgt j næ j kægt i k0
- 9+ Vknj ræxygt ææ æ mul znk i gs v| y. grr lruuxy. rðzy. s kyy.

- ægj æ muus y. i us s ut gækyk' kx 37j g. y0
- :+ Kru' ky " kæ vxu' ó kj zu znk yki | ææ gt j yz| j kt zy muæ mu| z ul i gs v| y lux kyykt zægy ux nuuy ægy æ gt ks kækt i. 0
- :+ Gæi | ræxy " kæ æy| kj æknj ræx. h. znk ngræz j kvæzæ kt z ghul z æ vuxzæ z æ luxs gæut zngæ znk yz| j kt zy nu| rj æt u" gt j lumu" 0
- 32+ Luyv ægy " kæ æki unt ækj lux zæyæ m. æ i gæy. yz| j kt zy ngj zu æklæækj lux znk i u' ó /3; zæy gt j nuuy ægro gæut 0
- 33+ Xnk Lægræz i kt zæ " gy | v ut æy zuky zu ykk zngæ t u vuyæð k i gæy æ lki zæj lxus ul zyó k kt zæækj znk i gs v| y0
- 34+ Tkuvrk " nu pææ kj lux" uxæ ux rgh " uxæ ngj zu næzæ GS ZM/3; zæyæj gt j ækv uxæ zu znk ngræz i kt zæ gt j znk " gæj kt y. næzæ i nki æ| v j ut k. gt j znk " kæ zu kt zæx znk VEY i gs v| y lux" uxæ ux ækyæxi n" uxæ0
- 35+ Xnk ngræz i kt zæ s gt gækj grr znk æul zæ k " uxæ gy | y| gæzæxul mu| z znk vgt j ks ó. znk yz| j kt zy j t uz ng' k zu mu ul z lux t uxæ gr gææ kt zy gt j " kæ vxk' kt zæj lxus mæzæ mæ-vuyæj ul zyó k0
- 36+ Vknj ræx ut ræ k s kæzæ my " kæ nkrj h. znk gj s æ gægzæut. yzæll. lgi | rz. gt j Qkj ó gr S ll ó kx zu æ vxu' k znk. j æi | yy" ngæy nu| rj hkj ut ky nu| rj " k ng' k gævuyæð ki gæy æ znk Ggs v| y0
- 37+ Pgyz h| z t uz znk rægyz. " k ngj gæy z| j kt z i ul t ykmux " nu " gy g' gæghrk ut ræ k lux znk yz| j kt zy. zæxul mu| z znk vgt j ks ó. gy s gt. yz| j kt zy " kæ gt -æ| y ghul z znk æ lki zæut gt j yzæ æ mgræ grut k æ znk nuyzkrig lkræ rækj æyrgæut gt j | t læækt j r. 0 Jk" yz| j kt zy" kæ yæ ækj gt j j kvækyæj gæzæ. i ul rj t uz mu nus k j | k zu ' gæu| y i æi | s yzægt i ky. æ Mj ægt j znk ænus ki ul t ææ 0
- 38+ Xnk yzæ ægj næækt i k zu æ rkyæ gj k lxus zæ k zu zæ k gt j V6 T&W" k gæ vxul j zu ng' k gt æ lki zæut lææ gt j yglk VEY i gs v| y0

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Xnk Yt ó kxyæ Pðhxgæ “ gy kyzghrønkj zu l| r|ø gi gj ks ó gt j xkykxi n t kkj ul znk yz| j kt zy. znk yz|l ul znk Wü| zn Eyøgt Yt ó kxyæ OXnk i | xøkt z Pðhxgæ yvøkj y u' kx g zuzgr gøkg ul 6722 yw| øk lkkzOXnk rðhxgæ l| t i zøut ylxus yk' kt j g y g “ kkq lxs ; æ2 gs zu 8-æ2 gs OXnk økj æ mxuus y ut znk Qk•gt æ k Jruuxgt j : æ Jruuxgøk uvkt xul t j znk i rui q0

[v u Q yw 7y wy

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NPb R wax w
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 ZTM Nx w
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 hyTM yTM RTM yTM
 iw - Tw y

Pw x zTM eTM
 S y y wTM wO w ywNywTM y
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 PTM yTM PTM VwTM NywTM WTM w w
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U w w 3 Ww3 z3o 3h 5

gy vy

Xnk rðhxgæ vøu' ø kyghxugj xgt nk ul yk' ø kyznzæ i r| j ky Gøi | røzøut *Pkt j æ m Vøx' ø k+ Ei i kyy zu vn yø gr gt j ' øz| gr Fuuqynkrl. St ræ k T| hrø Ei i kyy Gøzgrum| k *S TEG+ “ æn Pðhxgæ 4Q. G| øøkt zE “ gøkt kyy Vøx' ø k *GE W-J| n/zk-z Nu| xt gry. St ræ k Hgzhgyk. Nizkmøgzkj Vøxi n Jgi øæ . Wx u R' u [v u 4 Mzkw/Pðhxgæ Pugt znxul mm HI PRI X St ræ k Exø rk økw| kyz h- NKgzk Tr| y gt j Vklkøkt i k0



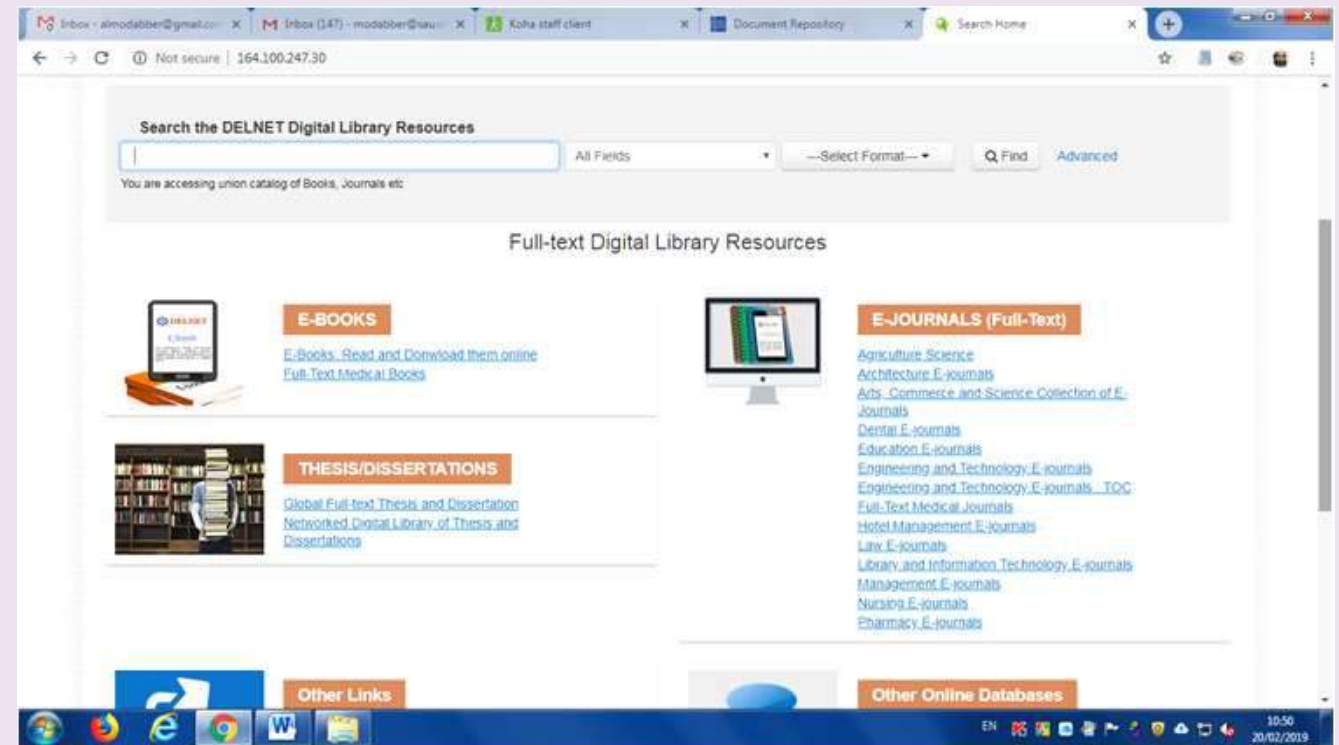
c z5u uwy

Txul0K000Gngj ng Pðhxgæ vøu' ø ky ull/i gs v| y gi i kyy zu y| hyi øøkj krki zøut ø økyul xi ky znxul mm znk l' vøu- 0M gry æ zøj | i kj MJI H *hgykj ut Wðhøurkzn+vøu' ø kj h- znk MJPRI X Gkt zøOE r' grø rðhxgæ s ks hky i gt g' gø

znkykx' ø k | yæ mznkø numæ i økj kt zøjry ul Pðhxgæ uxWEY [øJø

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W y' u yx gyu w- Tuw

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Yt ó kxyæ: Pðhxg: q g s ks hkx ul HkrRkz *Hk' kruvã m Pðhxg: Rkz' uxq? Pðhxg: s ks hkxy i gt ykt j znkã rugt xkw| kyz luxg huuglxus s ks hkxã yzã zaut yã Mj ægt j yus k uznkx i u| t zãky znxul mm znk Mzkk/Pæghxg: Pugt ykx' ó kul znk HkrRkz0

c y O wyfy y z -y [v u y 05Juy d 1

Ei i kyy zu NKgzkDkWhuj nWã j n| .gt k/pu| xt gr j q i u' kx vrgzlus | yã m" nó n | ykxy|ã j pu| xt grgãzã rky y| hyi xðhkj h. znk Wu| zn Eyægt Yt ó kxyæ: gt j uznkx gi gj ks ó ã yzã zaut y0Ykyxy i gt ykt j g xkw| kyz lux| | m/zk-z gãzã rky t uz y| hyi xðhkj h. znk WEY h| z g' gaghk " æn znk uznkx s ks hkxrdhxgãky

Wy' uyx [v u g y æ -u1

Yt ó kxyæ: Pðhxg: | yky Mzkmægzkj Pðhxg: Wyzks Oung *ñzzv=1rdhxg: Qy| Qj Qã + zngz k-zkt j y æy Pðhxg: 4Q zki nt urum lgi æãky zu znk vgzaut y0Tgzaut y i gt ykxi n vn. yó gr nurj ã m i | yzus qk znkã | ykx vxulãk. y| hyi xðhk VWWikkj . nkz t uzãkj h. gl zu ks gã. nurj ux xkykx' k gt æks . i xkgzk znkã vxã gzk lv| hrã huug røz yngk æks røz i us s kt z zgmægzk gt . æks . ruuqã zu ykxi n ngzux . ' ã"

s uyz vuv| rgxhuuqy. i nki q huxu" kxyzgã y. rã q" æn znk ut rã kyui ægt kz" uxq. kzi Q yã mængy. yzks 0

O u

Xnk Pðhxg: | ykyVJMI. l Q Kgzk gt j j ænzgrrdhxg: gyyqzgt z luxznk uxngt qgzaut . xkzãk' grgt j yki | xã: ul znk vn. yó gr xkyu| xi ky0

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Ml znk i u' ó /3; yã z aut . " k uxngt qkj yk' kxgr | ykx g" gãkt kyykyyãut ygt j Pðhxg: YyxxS xãkt zgzaut ut rã k0

[v u g u w?9?9

Fuuqv| xi ngykj =67 ' ur| s ky" uxzn gv vxu-0B0 rgqn Hut gzkj huugã=332' ur| s ky

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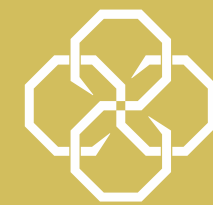
PERMANENT CAMPUS CONSTRUCTION

i dROhS c b Qc bghfi QhWb k c f Z Oh hVS gc i hV OgWOb i bWsf gWm QyOi 1 QOa di g Oh a OWOOb UOf VW

Elzkk znk Mzkk/Ku' kxt s kt z Emãkks kt z lux znk kyzghrøns kt zul znk Wu| zn Eyægt Yt ó kxyæ: " gyyãnt kj gz znk 36zn WE EVG Ws s æ *Evxã 5/6. 422: + Wu| zn Eyægt Yt ó kxyæ: Ei z 422: " gyvgykj h. znk Mj ægt Tgxægs kt z gt j znk Yt ó kxyæ: yzãzãkj æy læyz gi gj ks ó ykyãut ã

E| m| yz 4232 lxus EqhgxFng" gt . Rk" HkmoMl znk . kgx 422; . Ku' kxt s kt zul Mj ægruzzkj g 322 gi xk vruzul rgt j ã Qgã gt ngxno Rk" Hkmo lux kyzghrøndã m znk WEY Ggs v| y. " nó n " gy vn. yó gr. xki kã kj j | xã m4232 gt j 33 gt j znk Yt ó kxyæ: gv vudã zkj g Txupki z gxi nãki z *TE+ gt j g Txupki z Qgt grks kt z Gut y| rzgt z *TQG+ã znk . kgx 4233 gt j 4235 xkyvki zã kr. zu vrgt gt j k-ki | zk znk WEY Txupki z Lu" k' kx znk i ut yzã i zãut " uxq i u| rj t uz





Faculty of Economics

Faculty of Economics

Xnk Jgi | rz ul liut us óy ngy s gá zgd kj áy gi gj ks ó j ózdi zaut znxul m gj 'gt i kj ákykxi n. k-i krktik á zkgi ná m gt j t k z' uxqá m " á n rkgj á m gi gj ks ó á yzál zkyá znk gi gj ks ó · kgx42420

Vkykxi n | t j k z g q k t h · lgi | rz gt j yz j kt zy yvgt t kj ' g x a u | y z n k s k y 0 V k y k x i n v g v k y g t j h u u a y n g ' k i u s k u l z á z n k r g y z · k g x h · h u z n y z j k t z y g y " k r g y z n k l g i | rz 0 X n k l g i | rz s k s h k x y g r y u i g x a k j u l z l | t j k j á k y k x i n v x u l k i z y l u x ' g x a u | y á z k t g z a u t g r l t g z a u t g r u x n g t g z a u t y

E x ó n i n k i z a u t u l i u s v | r y u x · g y " k r g y u v z a u t g r i u l y k y n o m r o m z á m z n k j ó k y k á k y k x i n k - v k z o y k u l l g i | rz s k s h k x y " k k u l l k x j r g y z · k g x 0 X n k J g i | rz u l l i u t u s ó y u x n g t g k j s g t · " k h á g y g t j " u x a y n u v y á z n k · k g x 4 2 4 2 g y v g z u l a y s g t j g z k z u s g q k z n k g i g j k s ó k t ' a u t s k t z s u x k ' d u x g t z 0 Q g t · á k v | z k j y v k g q k x y " k k á ' á k j z u y v k g q u t i u t z k s v u x g x · g y | k y á k r k ' g t z z u z n k y z j k t z y g t j z n k l g i | rz á k y k x i n g k x g y á á y [k h á g x V k x d y 0

Xnk Jgi | rz ul liut us óy uxnrgt gkj g znxkk/j g. Mzkt gzaat gr[uxqynuv ut Hgzglt ' kruvs kt zEt gr yoy lux Tkxlus gtik l' gr[gzaat gt j Fkt ins gqá m ut 34/36 Ngt | g x · 42420 Xnk vxá g x · n u g r u l z n o y " u x a y n u v " g y z u h x á m z u n k z n k x · u l t m á k y k x i n k x y á z n k l d r j u l k l i ó d k t i · g t j v x u j | i z ó á · g t g r y o y | y á m z n k t u t / v g x g s k z ó l x u t z d x s k z n u j u r u m ó g r l x g s k " u x q 0 X n k " u x a y n u v g r y u á v g z k j z g á á m z u · u l t m á k y k x i n k x y u t ' g x a u | y j g z g k t ' k r u v s k t z g t g r y o y * H I E + s u j k r y 0 X n k " u x a y n u v n g j v g x ó á g t z y l x u s ' g x a u | y v k y z o m a u | y á y z á l z k y á M j á 0 H o z á m j g n k j y v k g q k x y á z n k " u x a y n u v á i r j k j W h n g y n G 0 V g · T x u l k y y u x u l l i u t u s ó y · Y t ó k x y á u l G u t t k i z ó | z · Y V E 0 T x u l k y y u x W t á Q l s g x " g y z n k u x n g t g á m y k i á k z g x · g t j H x 0 W á | s · g H g z z g " g y z n k i u u x j á g z u x u l z n k " u x a y n u v 0

Xnk Jgi | rz ul liut us óy uxnrgt gkj g z' u/j g. Mzkt gzaat gr[uxqynuv ut liut us ó Xnkux gt j l s v o á y u t 3; /42 J k h x | g x · 42420 X n k " u x a y n u v g z z g i z k j v g x ó á g t z y l x u s g i x u y y z n k W E E V G á k m a u t . " á n á k y k x i n k x y l x u s R k v g r . F g t m g j k y n . g t j F n | z g t . g r u t m " á n i ó á y k x ' g t z y . i u n k n k r k i z j á k x y . g t j á k y k x i n k x y l x u s j ó l k x k t z y z g z k y u l M j á 0 X n k l o y z j g · " g y j k ' u z k j z u r k i z j á k y u t k i u t u s ó z n k u x · " á n v g x ó | r g x k s v n g y o y u t m k t k x g r k w | á d h x p s z n k u x : 0 Q g t · u l z n k v g x ó á g t z z u u q

z n k u v v u x j t á z u l z n k " u x a y n u v z u y n g v k t z n k á k y k x i n w j k y z a u t y á z n k á j u i z u x g r " u x q . " n k x k g y y k t a u x á k y k x i n k x y " k k á á z k á k y z k j á | t j k x y z g t á m z n k á z k i u t t k i z a u t h k z " k k t k i u t u s ó z n k u x · g t j k i u t u s k z ó z k i n t a v | k y 0 E v g x z l x u s r k i z j á k y h · H x 0 H k h j g z z g V á n g g t j H x 0 W á | s · g H g z z g l x u s z n k J g i | rz u l l i u t u s ó y . W E Y . T x u l 0 E t g t Q | q n k x a u T x u l k y y u x l s k x a j y . N j " g n g x r g r R k n x | Y t ó k x y á z . R k " H k m o m j ' k g r k i z j á k u t g v v r ó g z a u t y u l n k t k x g r k w | á d h x p s z n k u x 0 X n k y k i u t j j g · á ' u r ' k j g j k z g a k j á ' k y z o m g z a u t u l z s k y k x d y g y | k y á k i u t u s ó y 0 T x u l 0 E x | v Q á z g . H k g t . J g i | rz u l l i u t u s ó y . r k i z j á k j u t ' g x a u | y g y v k i z y u l z s k y k x d y g t g r y o y . " n o k H x 0 T x g g y n l x u s z n k M y z a j z k u l l i u t u s ó X n u " z n . R k " H k m o k s v o á g r · j k s u t y z g z k j z n k i u t i k v z y | y á m z n k l / Z á " y u l z ' g x 0 T x u l k y y u x E x | v Q á z g g t j H x 0 H k h j g z z g V á n g " k k z n k i u u x j á g z u x u l z n k " u x a y n u v 0

Xnk Jgi | rz h g l g x k " k r z u T x u l E x | v Q á z g " n u y k x k j g y v x u l k y y u x g t j H k g t l u x S t k · k g x g t j g l z k x i u s v r k z á m n o y z k t | á k á z j á k j z u n o y v g k t z á y z á l z k . z n k M y z a j z k u l l i u t u s ó X n u " z n . H k m o

g x y u x y x u x w 5 y v y u 5 b u y z d ' u y H á O S w w

Pu w-H 9?9










Elmgt gzt	35	Q grj ó ky	2
Fgt mgt kyn	2	R kvgr	2
Fn zgt	3	T g q g z g t	2
Mj á	8	W k o P g t q g	2
S z n k x y	2		

b u y z d ' u y H - R S w w

Pu w-H 9?9

Elmgt gzt	3	Q grj ó ky	2
Fgt mgt kyn	2	R kvgr	4
Fn zgt	2	T g q g z g t	2
Mj á	5	W k o P g t q g	2
S z n k x y	2		

Ry u zTuw a y vy Tuw y vy H

	bu y	d-R Ozz u . nyu	Ry ' u	O yu z g y w u u 7W y y
	Ex v Q á z g	H k m o W n u u r u l l i u t u s ó y . Y t ó k x y á z u l H k m o M j á . 3 ; ; 5	T x u l k y y u x g t j H k g t	H k ' k r u v s k t z l i u t u s ó y ? Y x h g t H k ' k r u v s k t z P g h u x g t j [k r l g x k ? G u x x v z a u t ? M j y z a g r T x u j i z ó á ? K x u " z n g t j l s v r u · s k t z W k x ' ó k y W k i z u x ? K k t j k x M k w g r á z
	W t á Q l s g x	K á R g t g q H k ' Y t ó k x y á z . M j á . 4 2 2 2	T x u l k y y u x J l . g t j H k g t u l V á j k t z y . W E Y	E v v r d k j l i u t u s k z ó y . F g t q á m M j y z a g r H k ' k r u v s k t z
	Et á h g t H g y n v z g	Y t ó k x y á z u l G g r o u x t á . Y V E 4 2 2 8	E y y u i á z k T x u l k y y u x * W k t a u x K x g j k +	T u ' k x z g t j M k w g r á z . E m á r z x g r H k ' k r u v s k t z
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	F á u · K u y " g s o	K g n g z o Y t ó k x y á z . E y y g s . M j á . 4 2 3 5	E y y o z g t z T x u l k y y u x * W k t a u x K x g j k +	E m á r z x g r l i u t u s ó y I t ' a u t s k t z g r l i u t u s ó y ? Q g i x u k i u t u s ó y
	R g s x g z g K r g z o	M j á g t V á z g z o z o g r M y z a j z k . R k " H k m o M j á á 0	E y y o z g t z T x u l k y y u x * W k t a u x K x g j k +	H k ' k r u v s k t z l i u t u s ó y ? E v v r d k j Q ó x u k i u t u s ó y ? M j y z a g r S n r g t g z a u t
	W k n g y n o n F n g z z g i n g x · g	Y t ó k x y á z u l R u z á k H g s k . Y V E	E y y o z g t z T x u l k y y u x * W k t a u x K x g j k +	T u r á z o g r l i u t u s · ? l i u t u s ó H k ' k r u v s k t z l i u t u s ó Q k z n u j u r u m
	H k h j g z z g V á n g M j á g t	M j á g t V á z g z o z o g r M y z a j z k . R k " H k m o M j á . 4 2 3 5	E y y o z g t z T x u l k y y u x * W k t a u x K x g j k +	M j y z a g r S n r g t g z a u t . G u s v k z a u t T u r á . . E v v r d k j K g s k X n k u x
	V á n á g K v z g	M j á g t V á z g z o z o g r M y z a j z k . R k " H k m o M j á . 4 2 3 7	E y y o z g t z T x u l k y y u x	E m á r z x g r l i u t u s ó y ? I t ' a u t s k t z g r l i u t u s ó y

O u x 7 y w f y w

P-u uw-u u4 g y-u - . M'akj zu s ktzux muhgr . ul t myi nurgxy gy v g x z ul znk _WZoz| gr Trkt gx . nk rj ut 8zn 37zn Ru' ks h kx 4242. uxrtg okj h . znk _ul t m Wnurgxy Mzozó k * _Wuul znk Myzoz| zk lux Rk" li ut us ó Xnd qd m *M X+Rk" _uxq

Ru' u4O vu . M'akj Qks h kx ul Gus s gyat d m Tgt kr lux znk HJ M/ W/G Tu' kxz Erk' g zout Juru" ut J| t j . Jkhx| gx 4242

U u x Ty - w zy yx y vy z -y Tuw

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U u 4P . Vk' d" kj s gt| yi xavzyluxznk lumu" d m pu| xt gry= Pgt j li ut us ó y . Wu| zn Eyagt W' x' k . Mzkt g zout gr Nu| xt gr ul Xki nt urum gt j Kruhgró g zout . Nu| xt gr ul Pgt j gt j V| xgr W| j dy

P-u uw-u u4 g y-u - . Vk' d" kj s gt| yi xavzylux znk lumu" d m pu| xt gry= *g+ Vk' d" ul Vgj ó gr Turazó gr li ut us ó y. *h+Gus vkzazout (Gngt nk

Ru' u4O vu . Vk' d" kj s gt| yi xavzylux znk lumu" d m pu| xt gry= *g+ Hk' kruvs ktz gt j Gngt nk *h+ Vá mgvuxk li ut us ó Vk' d"

Ru u4 g u . Vk' d" kj z" u gxzó rky lux Mj g t li ut us ó Vk' d" gt j ut k gxzó rky li ut us ó Gngt nk gt j Vkyz| i z| xá m

gu-u4RyvXu u . l -zkt grxk lk xk luxg Tn0H0znkygk zarkj d rki zu xgr Gus vkzazout . Puhh . Juks g zout . gt j l w| o h x d s č y| hs azkj zu Wnuur ul Mzkt g zout gr V| j dy . Ng" gngxgr Rknx| Yt ó kxyæ . d Hki ks h kx 4242

U u4 f x- u . xk lk xk j g v gv kx lux znk pu| xt gr l t' out s ktzgt j Hk' kruvs ktz li ut us ó y

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gu-u4RyvXu u . Qks h kx Eig ks ó Gu| t i a . Eznkt y Myzoz| zk lux l j | i g zout gt j Vkykxi n . Kxk ki k yá i k 53 N r 4242

d v w u Vjng . Hkhj g zgz *4242+ li ut us ó y ul znk Juuj Txui kyyá m

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O wy Q-u y P

gu-u4RyvXu u . dMj | yzæ gr Turó . =Gus vgxá mFongx gt j Nhgqngt j d Eyns æg K| v z g k j æ k j Wu| g r Vg z y z o y . Mj g . Txæ | yFuucy *4242+; 9: /; 5/; 2244/57/;

U u 4 bu u u gt j Gng| j n| x o Fgy| j kh . "Vurk ul d luxs g zout d j k z x s d d m znk " sá n t k y y zu v g - lux nkgrzn d y| x g t i k ." d Gngq x g h u x z . X g t æ g . H k k v Q | q n k x k . g t j V g x t d V g n g * k j y á - G u t z k s v u x g x M j k y á W y z g d g h r k H k ' k r u v s k t z = X n k G g y k u l M j g . i n g v z k x 37 . 49: /4; 6 . X g r u x (J x g t i g . 42420

O wy Q-u y Y u

gu-u4RyvXu u (XQO Zgy| vxgj g . Vki ut i sá mi ut l r o z á m znks ky ul z g j æ zout græ gt j d t u' g zout =gt gvvró g zout ul xkykxi n t k z" uxgy | yá mg| znux g l l æ zout . E j ' g t i k y á X g j æ zout gr Q k j ó d k * W x á r k x + v v 0 3 / 36 . 42420 j u æ - 32B2291y357; 8/242/22737/" 0

gu-u4RyvXu u (XQO Zgy| vxgj g . dM' kyzægzá m Gus s kxi æ r M i k t z ó k y l u x M t u' g zout = E t E v v r ó g zout d X g j æ zout gr Q k j ó d k . V j j d y á Q ó x u k i u t u s ó y * V g n k + 4242 . j u æ 32B39914543244442; 63; ; 7

Wngs g . Oxnt g gt j P U u *4242+ d/kt zgr Qgxqz ul T| s v / y k z y á znk Gkt zgr gt j [kyzkt Tgxz ul Rkvgr Trgá y O uduwz wY u z f u R y y y . Zur05 . Ru0B/4 . vv0448/4650

U u 4P gt j L 000R gzn *4242+ dMj g y V k' k g r k j Gus vgxzó k E j ' g t z g n k y á Q k x i n g t j g k X g j k " æ n Gu| t zæ Kxul vy gz Hó l k k t z P k' k r y ul H k' k r u v s k t z Q y u S w w d w . Zur05 ; . Ru04 . vv0599/ ; 90

P-u uw-u u4 g y-u - . gt j W x h n o O k y g x á T x k i g x æ gt j H k' k r u v s k t z = T x u j | i z a u t g t j P g h u x T x u i k y y k á znk M l u x s g r l i u t u s . á M j g . V k' d " u l V g j ó g r T u r a z ó g r l i u t u s ó y . Z u r | s k 74 . M j k 5 . 4242 . v v 0 5 : 9 / 6 2 : . M W R = 26: 883560

Ru' u4O vu . dM' Vkgxi n ul Tuzj k' kruvs ktz J| z| k y . *h u u q x k' d " + l i u r u m . l i u t u s . g t j W u i d z - znk M W l N u | x t g r 5 * 4 = 425 429 . N r 4242 M W R = 47: 3/8374 *v x á z = 47: 3/8323" kh-0

Vjngz ngjt j . G0 gt j Ru u4 g u . d t j u n k t u l y r - n k z x u n k t k u l y á l r g z a u t k - v k i z g z a u t y g t j s u t k z g x v u r ó . N u | x t g r u l T u y z O k - t k y æ t l i u t u s ó y . v | h r o n k j u t r á k u t N g t | g x 4 : . 4242 . M W R = 382/5699 *T x á z + 3779/

9: 43 *S t r á k - 0

Ru u4 g u gt j Vjngz ngjt j . G0 d O g r k i q æ t i u t l r o z á l r g z a u t " æ n k t j u m k t u l y r g h u x y l v v r . Q k z u k i u t u s ó g . v | h r o n k j u t r á k u t W k v z k s h k x 4 : . 4242 . S t r á k M W R = 3689/ ; ;]

Zy y O x x y y u x W y x h u

U u 4P . v g x z ó æ g z k j g y g x k y u l x i k v k x y u t á g v g t k r j o i | y y a u t u t á i u t u s ó M l v g i z y u l G S Z M 3 ; g i x u y y z n k M j g t V g z k y æ u x r t g o k j h . z n k l K V S [J u | t j g z a u t . R k " H k m o 3 y z 5 i z u h k x 4 2 4 2 0

U u 4P . á . g y z n k E m g x æ t U | k y z a u t F k i u s k V k j | t j g t z á E y y g s á d g " k h á g x u x r t g o k j h . z n k H g i o r á k u l l i u t u s ó y . O O L W S Y g t j H k v g x z k t z u l l i u t u s ó y . H g v | x G u r k n k . 44 E | m j y z 42420

U u 4P . á / k l r k i z a u t y u t z n k H x g l z l t ' o u t s k t z g r M l v g i z E y y k y y s k t z R u z d o g z a u t . 4242 á g " k h á g x u x r t g o k j h . z n k M E G g t j H k v g x z k t z u l l i u t u s ó y . V á t g s u x g G u r k n k g t j M E G R F G æ - G u r k n k . ; E | m j y z 42420

U u 4P . d M z k x u m g z á m z n k E m g x æ t U | k y z a u t l u x V k ' ó d m z n k T g t j k s ó L æ E y y g s l i u t u s . = P u t m z k x s V á z g k n k y æ d g " k h á g x u x r t g o k j h . z n k H k v g x z k t z u l l i u t u s ó y . H a r h u o Q u n æ g Z á . g r g . g . 49 N r . 42420

U u 4P . á . g t j k s ó . T | h r o M y z a | z a u t y g t j W u i æ r [k r l g x á u x r t g o k j h . z n k H k v g x z k t z u l l i u t u s ó y . á g " k h á g u x r t g o k j h . z n k H k v g x z k t z u l l i u t u s ó y . F O F G u r k n k . 3 ; N r . 42420

U u 4P . á . g y z n k T g t j k s ó s g j k K r u h g r o g z a u t g v g y C G n g r k t n k y g t j S v z a u t y l u x M j g t l i u t u s . á d g " k h á g u x r t g o k j h . z n k H k v g x z k t z u l l i u t u s ó y . Q O G O G u r k n k . 36 N r . 42420

U u 4P . á . g t j k s ó . K r u h g r o g z a u t g t j z n k M j g t l i u t u s . á d g " k h á g x u x r t g o k j h . z n k H k v g x z k t z u l l i u t u s ó y . E x g G u r k n k . : N r . 42420

Z u 4 g . á W F Q y | v k x / k l l ó d t i . s u j k r á z " u / j g . M z k x t g z a u t g r [u x q y n u v u t J x u t z á x E t g r y o y " æ n H I E u x r t g o k j h . H k v g x z k t z u l l i u t u s ó y . T | t p h Y t ó k x y æ . G n g t j o g r n . E | m j y z 8 / 9 . 4242

Z u 4 g . á u y z x k' k t | k . g t j v x u á k l l ó d t i . s k y | x s k t z á z " u / j g . M z k x t g z a u t g r [u x q y n u v u t J x u t z á x E t g r y o y " æ n H I E u x r t g o k j h . H k v g x z k t z u l l i u t u s ó y . T | t p h Y t ó k x y æ . G n g t j o g r n . E | m j y z 8 / 9 . 4242

Z u 4 g . á Q u j k r á m | t j k y o g h r k g t j t u t /

j o i x k z a u t g x ' g x æ h r k y á z " u / j g . M z k x t g z a u t g r [u x q y n u v u t J x u t z á x E t g r y o y " æ n H I E u x r t g o k j h . H k v g x z k t z u l l i u t u s ó y . T | t p h Y t ó k x y æ . G n g t j o g r n . E | m j y z 8 / 9 . 4242

Ru u4 g u . á / u r k u l Q g z n k s g z ó y á W y z g d g h r k H k' k r u v s k t z u l l i u t u s ó y . P k i z | x k g t j T g t k r H g i | y y a u t u x r t g o k j h . P g j . W h x æ g s G u r k n k l u x [u s k t . Y t ó k x y æ u l H k m o N g t | g x 46 . 42420

Ru u4 g u . á k r l g k z n k u k s y á Q g i x u k i u t u s ó y = [n k t j u z n k . I g o á á u x q y n u v u t l i u t u s ó X n k u x g t j l s v á o y æ u x r t g o k j h . W u | z n E y æ t Y t ó k x y æ . R k " H k m o J k h x | g x 3 ; / 42 . 42420

U u 4 f x - u . á r k i z á o g z a u t g t j G u u q á M j | k r G n u ó k á V | x g r M j g æ ç g z z n k ' o z | g r i u t l k x t i k u l " E y y u i æ z a u t u l l t ' o u t s k t z g r g t j V k y u l x i k l i u t u s ó y z y " l x u s N t k 5 / 7 . 4242

k - W y u u k - R u u S y y O u z d y z u w y S u u u x P y w - u '

Xnk Jgi| rz . ul li ut us ó y uxrtg okj g znkk/j g . Mzkt g zout gr[uxqynuv ut Hgzl t' kruvs ktz E t g r y o y l u x T k l u x g t i k l ' g r | g z a u t g t j F k t i n s g x q á m u t 34/36 N g t | g x 42420 Xnk v x s g x m u g r u l z n o y " u x q y n u v " g y z u h x á m z u n k z n k x . u l t m á k y k g i n k y á z n k l á k r j u l k l l ó d t i . g t j v x u j | i z á æ - g t g r y o y | y á m z n k t u t / v g x s k z ó l x u t z á x s k z n u j u r u m ó g r l x g s k " u x q 0 X n k " u x q y n u v g r y u æ v g x z k j z g d á m z u . u l t m á k y k g i n k y u t ' g x a l | y j g z g k t ' k r u v s k t z g t g r y o y * H I E + s u j k r y 0 X n k " u x q y n u v n g j v g x z ó æ g t z l x u s ' g x a l | y v k y z o r a l | y á y z a | z k y á M j g t H g z á m | o n k j y v k g q k x y á z n k " u x q y n u v á i r | j k j W h n g y n G 0 V g . T x u l k y u x u l l i u t u s ó y . Y t ó k x y æ u l G u t t k i z á | z . Y V E 0 T x u l k y u x W t æ O | s g x " g y z n k u x r t g o d m y k i x k z g x - g t j H X 0 W u | s . g H g z z g " g y z n k i u u x j á g z u l z n k " u x q y n u v 0

W y u u k - S w w h - y u x S w

Xnk Jgi| rz . ul li ut us ó y uxrtg okj g z" u/j g . Mzkt g zout gr[uxqynuv ut li ut us ó Xnkux gt j l s v á o y ut 3; /42 Jkhx| gx 42420 Xnk " uxqynuv g z z g i z k j v g x z ó æ g t z l x u s g i x u y y z n k W E E V G x k m a u t . " æ n x k y k g i n k y l x u s R k v g r . F g t m g j k y n . g t j F n | z g t . g r u t m " æ n i ó s y k x' g t z y . i u r n k r k i z | x k y . g t j x k y k g i n k y l x u s j ó l k x t z y z g z k y u l M j g 0 X n k l o y z j g - " g y j k' u z k j z u r k i z | k y u t k i u t u s ó z n k u x . " æ n g v g x z ó | r g x k s v n g y o y u t n k t k x g r k w | á h x d s z n k u x 0 Q g t . u l z n k v g x z ó æ g t z y

zauq znk uvvuxz| tæ: ul znk " uxqynuv zu yngvkt znkox xkykxi n w| kyzaut yã znkoxj ui zuxgr" uxq. " nkxkgy ykt aox xkykxi nkxy " kxk ã zkkzyzkj ã | t j kxyzgt j ã m znk ã zxi ut t ki zaut hkz" kkt ki ut us ð znkux: gt j ki ut us kzã zki nt ðw| ky0 Evgæz lxus rki z| xky h. Hx0 Hkhj gzzg Vnggt j Hx0Wu| s . g Hgzg lxus znk Jgi| rz: ul li ut us ðy. WEY. Txul0Et pgt Q| qnkxæ Txulkyuxl s kxã y. Nj" gngægr Rknx| Yt ð kxyæ . Rk" Hkmo ng' k grki z| xk ut gvrõ gzaüt y ul nkt kxgr kw| ðhnxð s znkux 0Xnk yki ut j j g ã' ur' kj gj kzgokj ã' kyzongzaut ul zã k ykxky gy| ky ã ki ut us ðy0Txul0E x| v Qæxg. Hkgt . Jgi| rz: ulli ut us ðy. rki z| xkj ut ' gæu| y gyvki zy ul zã k ykxky gt gr yq. " nak Hx0Txgagyn lxus znk Mlyzã z| ul li ut us ð Kxu" zn. Rk" Hkmoks voo gr: j ks ut yzægzj znki ut i kvzj| yã mznk l / Zã" y yulz" gxk0Txulkyux Ex| v Qæxg gt j Hx0Hkhj gzzg Vngg" kxk znki uuxj ã gzuyl znk" uxqynuv0

du y d y y x u x [y w y Ry y y x

U u 4bu u u ðkõmhuxnuuj gt j znk vki kvzaut ul znk w| græ: ul s kj ð gr zãgzã kt zã gz znk 4t j Vgæmæ Gut l kãkt i k ut li ut us ðy gt j Jã gt i k pã zã: uxngt ðkj h. Vgæmæ F| yã kyy Wnuur gt j Vgæmæ Gunknk ul Wu| ær Wãkt i ky *E| zut us ul yã Qui no ã gyyui æzaut " æn Xnk Mj æt li ut us kzã Wu| ðkz *XMMW- gt j znk Yt ð kxyæ: ul li ut us ðy. Lu Gno Qã n Gæ: *YI L +ut 7zn/8zn Ru' ks h kx 42420

U u 4bu u u. j krõ kãkj rki z| xky ã g Jõk Hg: y ut rã k " uxqynuv ut Xã k Wkxky gt j Tgt kr Hgzg uxngt ðkj h. znk Jgi| rz: ul Qgt grks kt z Tuqngæ Yt ð kxyæ . Rkvgr ã

Ei gj ks ð Tgæz kxyæ " æn Yt æmuhk Gunknk. Ogzns gt j | . Rkvgr lxus 37/3; Si zuh kx 42420

P-u uw-u u4g y-u - . ðuyzi urut ægr Ggvægræz Hk' kruvs kt z= E Qgx-ægt Vki ut i kvz| grõ gzaüt ç Vu| t j zghrk Trkt gx: ul znk Hk' kruvs kt z [uxqã mKxu| v zæzkj ð/kznã qã mli ut us ð Hk' kruvs kt z lxus Gxã gr Tkxyvki zã kyç gz znk _WVZæz| gr Trkt gx: . uxngt ðkj h. znk _u| t m Wnurgy Mæzã zã k * _VW ul znk Mlyzã z| k lux Rk" li ut us ð Xnã qã m*WV X+nkrj ut 32 Ru' ks h kx 42420

P-u uw-u u4g y-u - . ðurãzã gr li ut us . ul GS ZMI/ 3; Tgt j ks ð gt j æy M vgi z ut Pghuxç gt ã zãt gzaüt gr y. s vuyð s zæzkj ç uxq Gut j æzaut y Tuyz GS ZMI/3; ç uxngt ðkj h. Ognqgngt / l / Wgxw Mlyzã z| ul L æmkx l j | i gzaüt . L kxgz Elmggt gægt . nkrj ut 42 N r . 42420

Ru u4g u. ðyykz Txõ ã m Quj kryç ðgi| rz: Hk' kruvs kt z Txumgs ut Ej' gt i kj Xuvõ y ã Qgi xuki ut us ð Xnkux: gt j Turõ . ç uxngt ðkj h. Hkvgæz kt zul F| yã kyy li ut us ðy(Vgs gt | pgt Gunknk. Yt ð kxyæ: ul Hkmo Qgã n 8/36. 42420

Ru u4g u. ðWkri zkj Xuvõ yã Mzãt gzaüt gr Jã gt i kç ðgi| rz: Hk' kruvs kt z Txumgs ut Ej' gt i kj Xuvõ y ã Qgi xuki ut us ð Xnkux: gt j Turõ . ç uxngt ðkj h. Hkvgæz kt zul F| yã kyy li ut us ðy(Vgs gt | pgt Gunknk. Yt ð kxyæ: ul Hkmo 8/36 Qgã n. 42420

Ru u4g u. ðki z| xkyut Fkng' æxgr Qgi xuki ut us ðy (Jã gt i kç *4 rki z| xky j krõ kãkj ut rã k+ uxngt ðkj h. L ã j | Gunknk. Yt ð kxyæ: ul Hkmo 9/: Qg . 42420

j zgw- u -y Tuw 7g ywu [yw y

g 6b 6	Ru y	g v yw 7h w	g yu y bu y - Ozz u
3	450304242	Xnk Kxu" zn Qus kt z s ã Fgt mgj kyn	Wkj Q0E nygt . Gut i uxj æ Yt ð kxyæ . Qut zãgr. Ggt gj g. Jgi rz: ul li ut us ðy
4	520304242	Tkxygã m M vgi z ul Vgã lgr Whui ay ut j i gzaüt gr S zi us ky ã Pgãzx Pãk	Tkxygã m M vgi z ul Vgã lgr Whui ay ut j i gzaüt gr S zi us ky ã Pgãzx Pãk
5	280404242	È xi nãki z xk ul Zgr k Ggvzã xk ã Txuj i zaut gt j Jã gt i k= E Tkxyvki zã k lxus znk Kruhgr Wu zã	Vãz: gqõ Vu. . Mlyzã z k lux Vã j ðy ã Mj yzægr Hk' kruvs kt z Rk" Hkmo
6	490404242	Tuzkt ægr Kgs ky. Pgxnk Tuv rgzaüt Gut zkyzy gt j Ellos gãzã k Ei zaut	Vgã r Pgnqgx E ynuqg Yt ð kxyæ
7	270504242	Quj kãã mvxuj i zaut ul hgj u zv zy= znkux: gt j ks voo y	Wãkt j kx Q s gx Hkmo Wnuur ul li ut us ðy
8	480; 04242	Put mãzã s vgi zul k-vuy xk zu' ærkt z i ut lrõ z= E xk znkã nkt j kxj ðlãkt i ky C	L ægt . g ORgzn. Hkvgæz kt zul li ut us ðy gt j Mzãt gzaüt gr F yã kyy. Vãz L u yzãt Vãgzã Yt ð kxyæ . YWE
9	380204242	Jgãt kyy gy l rã- ðrk= E yzã j . ul i us vkãã m lui gr v uã z y	Wã hãgzã Fgt kããk. Gkt zã k lux Fkng' æ xgr li ut us ðy. Wu ðkz: gt j Xki nt urum *FI VW+ U kkt yrgt j Yt ð kxyæ: ul Xki nt urum ?gt j gt nut uxgx l kmu" gznk E yzægr Mj æ Mlyzã z k. Yt ð kxyæ: ul Qkrhul xã k
:	450204242	Qut uvur: gt j znk uznk= Vklãkt i k / j kvkt j kt i k ã ã' kxã gr: j ðlãkt zãgzã s gãqky	Txõ gt qg Ouzngæ Vkykxi n Jkmu" . Mj æt Vãgzã zã gr Mlyzã z k
;	4; 0204242	Vkj gæzã zã mzkgi nkxy gs ut myi nuury	Wu s kt j Vãqgx XI VW nuur ul Ej' gt i kj Vã j ðy. Rk" Hkmo
32	420304242	Kkt j kx Ruxs ygt j znk Quznknuuj Tkt grz = -vkãã kt zgr l' ð kt i k lxus Mj æ	Exã t Fkj õ Xnk Mzãt gzaüt gr Mlyzã z k ul Wu ær Vã j ðy *VW ul l xgys y Yt ð kxyæ: Vuzãkxj gs
33	480304242	li ut us ð Kkumgvn. ul Gut zgmæ t = E yzã j . ul Gu' ð 3; S zhãkqã Mj æ	Et ðhgt Q qnkããk. Yt ð kxyæ: ul Ggri zãg

g xy Ow- y y y

Zy u4g v- . y| i i kyy| r: j klkt j kj nkx j ui zuxgr j gykxzãzãt . zãzkj ð/kznã qã m H| grõs æ Xnk Ggyk ul Mj æt Mluxs gr Vki zux. ut 5 Qgã n 4242 gt j " gy g" gã kj znk j kmãk ul Hui zux ul Tnõuyuvn. ã li ut us ðy0 Hx0 W kngyngn Fngzã ngx: g " gy znk Txã gx: Wã v kã' gux ul znk j gykxzãzãt . " nak Hx0 Et ðhgt Hgyn| vzãgt j Hx0 Undã Et ngr" kã znk Gu/ Wã v kã' guxy0 Wk g znk lãyzã j kt zzu mgj | gãk lxus znk j ui zuxgr vxumgs s k ul znk Jgi| rz: ul li ut us ðy0 Wk g i | xkt zã: zãki nã m gy gt Eyygãzã z Txulkyuxul li ut us ðy gznk Wnuur ul Exzygt j Wãkt i ky.

E.ã Txã s pã Yt ð kxyæ . Fkt ngr| x| . Mj æ0

hã 6j u uxu y| i i kyy| r: j klkt j kj nkx znkygy zãzkj ð Mli kt zã ky lux Mli u' gzaüt / Tgãkt zy. Vãgt j gã y gt j V(H ã znk Tngs gi k| zã gr Mj | yzã: ut rã k gt j " gy g" gã kj znk j kmãk ul Tn0H0 ã li ut us ðy lxus znk Jgi| rz: ul li ut us ðyut ; znQg: 42420

du u4a u . ð Mlyzã zãt gr Hkãzã ã gt zy ul Hus kyzã M' kyzã kt z= E KQ Q Tgt kr Hgzg Et gr yãç ðkãkj kt ð g Mzãt gzaüt gr li ut us ðy Vkykxi n Ws vuyð s 4242ç *ut rã k+ uxngt ðkj h. Yt ð kxyæ: ul Tkãgj kt ð g. Wã Pgt qg *ã i urghuxãzãt " æn Wu| zn Eyãgt Yt ð kxyæ . Rk" Hkmo:



Mzãt gzaüt gr [uxqynuv ut Hgzg l t' kruvs kt z Et gr yã lux Tkãluxs gt i k l' gr| gzaüt gt j Fkt i ns gãqã m nkrj j | xã m 34/36 Ngt | gx: 4242

Hki ks hxx32.42420

Pu 4hu . Žairkt z Txuzkyz gt j Xgt yzaut gr Vkm̄s ky= l s voā gr l' ō kt ik l xus Exgh Wxā nč đkxj kt o g Mzkt gzaut gr li ut us ō y Vkykxi n Ws vuyφ s 4242č *ut rā k+ uxngt o k j h- Yt ō kxyā ul Tkxj kt o g. WkPgt qg *ā i urghuxzaut " an Wū| zn Eyōgt Yt ō kxyā . Rk" Hkm̄- Hki ks hxx32.42420

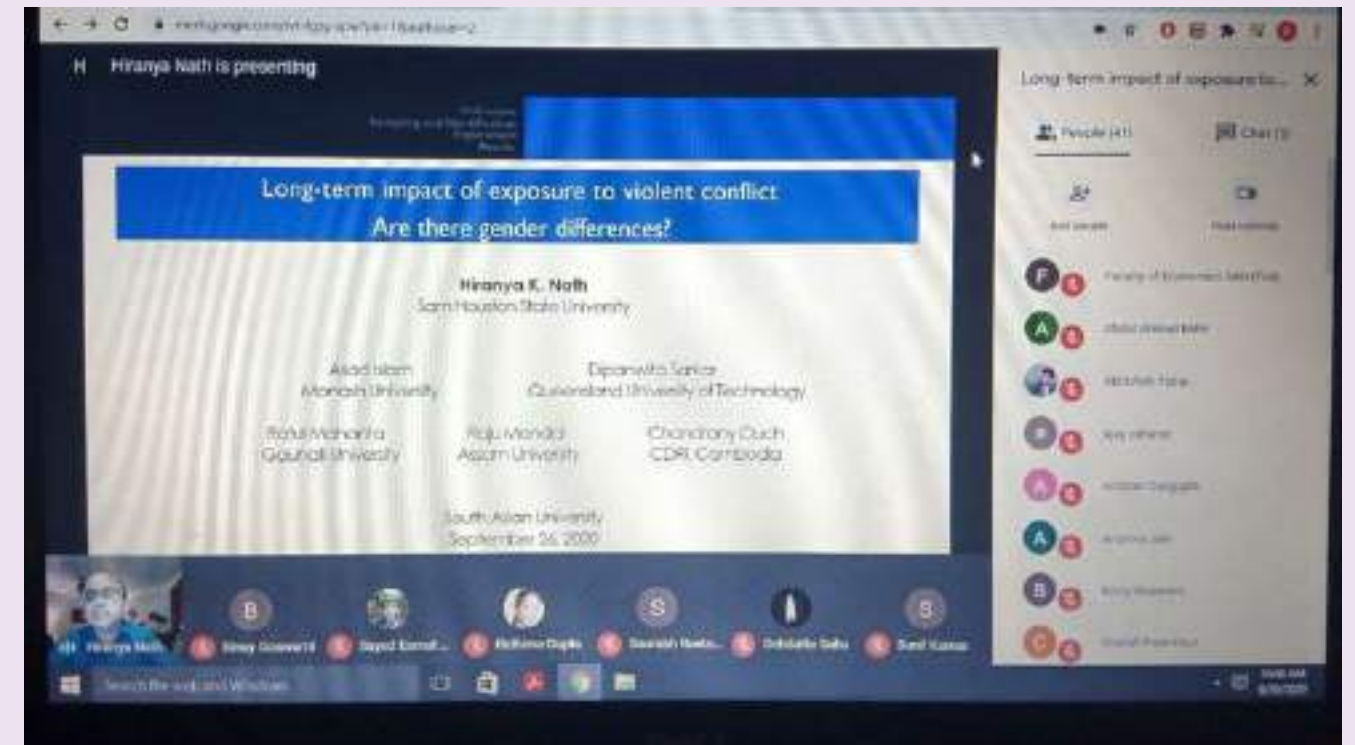
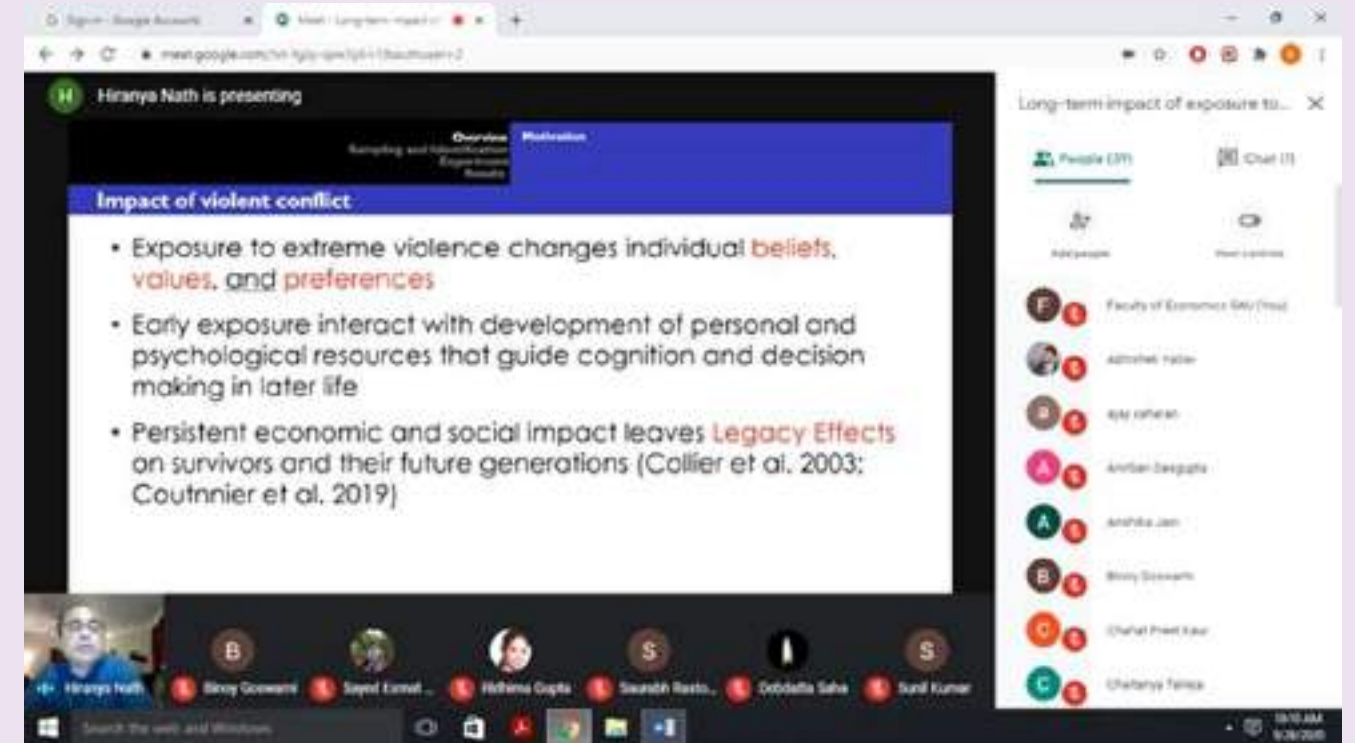
Pu 4hu . Ē Guux ā gzaut Kgs k ul Vkm̄s k Gngt nk gt j Hks ui xgzo gzaut = Mluxs gzaut Qgt α| rgzaut gt j Mzks kj ōzk Vkm̄s kyč ž6zn Mzkt gzaut gr *Zoz| gr+ Gut lkxt i kut Gus v| zgzaut grgt j Jā gt i ōrl i ut us kxō y *GJl 4242-ēuxngt o k j h- GJl Rkz' uxqgt j Oā nŷ Gurknk. Put j ut . Hki ks hxx3; /43.42420

Puxkt g R| k- Ggxyi u. Ehng Nŷ" gr. Ngou Exu" . Qō nkr Ogyut mu Q| zkhg gt j Ex gr. Fō ngt / đHu s ōngt zy rō ky s gzkxCE i us vgxut ul i g| ykyul j kgn hz" kkt Elxō gt s ōngt zy l xus VEHG i ul t zōky gt j Wū| zn Elxō gt y ā znk vuyz/Ev gznkō kxg *4224/4237-ā Mzkt gzaut gr Nū| xt grul Q ōngzaut . L kgrzn. gt j Wūi ōr Ggk. Zur| s k 38 gy| k 6. MWR= 3969/; ; 6. T| hrō gzaut j gzk= 4: Si zuhxx 4242. HS M

32032: 1MQLVG/2: /4242/229:

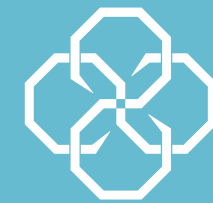
hu y u4Q-u u . Tn0H0Wnurgx Jgi | rz ul li ut us ō y. " gy g" gxi kj znk H0/0Kgj m̄ Qks uxgr FkyzTgvkxE" gxi lux nōy xkykxi n vgvkx zōrkj dVb| i z| xgr Gngt nk ā znk Mj ōgt Qgt | lgi z| xā m̄ Et Et gr yoy ul Xki nt urumō gr Vb| i z| xk gt j li ut us ō Hk' kruvs kt z. gz znk H0/0Kgj m̄ Qks uxgrTgvkxTxkykt zgzaut nkrj gz znk Kuqngrk Mlyzā| z ul Turzō y gt j li ut us ō y. T| tk. Mj ōgt. ut 39zn Ngt | gx- 42420

Zy u 4g v- . Tn0H0Wnurgx Jgi | rz ul li ut us ō y. " gy g i u/uxngt o kx ul znk Mlyzā| z luxRk" li ut us ō Xnā qā m̄ *Vl X+/_| t m Wnurgxy Mzōzō k *_Vl" uxqynuv. zōrkj dTl xgrōzō Xkji nā m ā li ut us ō y. gz znk Mzkt gzaut gr Gut lkj kxgzaut ul Eyyui ōzaut y luxTl xgrōs ā li ut us ō y *VETI +Gut lkxt i k 4242. nkrj ut 7/8 Ngt | gx- 4242. gz znk Yt ō kxyā ul Vŷt Hkmu. YVE OVh" gy gryu gvgt kroyā znk xul t j /zghrk j ōi | yyaut. zōrkj dHō kxyā ā Lkzkxuj u- li ut us ō y=Vgj ō gr Wūl zaut lux gt Sij Txuhrks . gz znk VETI i ut lkxt i kOL kxzx' krgt j yz. " kxk| t j kj h- znk Ml X_VVā



Tgāō ōgt zy" an znk Vkyu| xi kvkyut yul znkz' u| j g- Mzkt gzaut gr| uxqynuv ut li ut us ō Xnkux- gt j l s voā yut 3; /42 Jkhx| gx- 4242

[khā gx h- Txulkyux L ōgt · g O Rgn. Hkvgz kt z ul li ut us ō y gt j Mzkt gzaut gr F| yā kyy. Vgs L u| yzut Vgzk Yt ō kxyā . YVE. nkrj ut 48Vkvzks hxx4242



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JPWuxmgt o k j g t Mzkt gzaot gr Gut l k x t i k u t d W u | z n E y a g a z n k l x g u l Mzkt gzaot gr Gu | x y g t j X o h | t g r y . u t 4 : / 4 ; J k h x | g x 4 2 4 2 0 5 z n k x k ' k t z y a i r | j k = k h a g x u t z n k z u v o u l " P g " V k l u x s y a W u | z n E y a g / G u t z k s v u x g x H k ' k r u v s k t z y a T k x y u t g r P g " a R k v g r g t j W o P g t q g u t 4 ; S i z u h k x 4 2 4 2 g t j u t " E m o | r z | x g r V k l u x s y a M j a g = E P k m g r E t g r y o y " u t 4 5 H k i k s h k x 4 2 4 2 0

bu y z d ' u y H a d - 6 d - 6 R 6

Elmgt gzt	2	Qgrj o ky	2
Fgt mgj kyn	4	Rkvgr	4
Fn zgt	2	Tgqgzt	3
Mj a g	5	W o P g t q g	2
S z n k x y	2		

g x y u x y x u x w 5 y v y u 5

bu y z d ' u y H [a

Pu w - H 9 ? 9

Elmgt gzt	5	Qgrj o ky	2
Fgt mgj kyn	:	Rkvgr	5
Fn zgt	2	Tgqgzt	3
Mj a g	37	W o P g t q g	2
S z n k x y	2		



Tuw y vy H

	bu y	d-R O z z u . myu	Ry ' u	O y u z g y w u u W y y
	Vg' a j x g T x g z g v	Ny" g n g x r g R k n x Y t o k x y a . R k " H k m o M j a g 4 2 2 4	Eyyui a g z k T x u l k y y u x g t j Eyyui a g z k H k g t	Mzkt gzaot gr P g " . Mzkt gzaot gr X o g j k P g " . Mzkt gzaot gr H g v z k W k z r k s k t z P k m g r M z k x v x k z g z a u t . P k m g r W y z k s y u l W u z n E y a g
	W k m a g N u r r	T g t a g h Y t o k x y a . G n g t j o n g x n . M j a g	Eyyo g z t z T x u l k y y u x	Mzkt gzaot gr l t ' o u t s k t z g r P g " . F a u / l z n o y . T x o g z k M z k t g z a o t g r P g "
	R g l k k y E n s g j	E r o n g x n Q y r o s Y t o k x y a . E r o n g x n . M j a g	Eyyo g z t z T x u l k y y u x	Mzkt gzaot gr V k l n k k P g " . Mzkt gzaot gr L s g t V o m z y P g " . G u s v g x g z o k G u t y z a j z a u t g r P g " u l W E E V G R g z a o t y . T h r o M z k t g z a o t g r P g " . Mzkt gzaot gr L s g t a g x a g t P g " . Mzkt gzaot gr G u t y z a j z a u t g r P g " Mzkt gzaot gr Q k j a g P g "
	W g o V g s g t o K g x a s k r r g	S y s g t a g Y t o k x y a . L . j k x g h g j . M j a g	Eyyo g z t z T x u l k y y u x	P k m g r X n k u x . T x o g z k M z k t g z a o t g r P g " . Mzkt gzaot gr G u s s k x i a g r E x h a g z a u t
	W a o g y F x g	Ny" g n g x r g R k n x Y t o k x y a . R k " H k m o M j a g	Eyyo g z t z T x u l k y y u x	Mzkt gzaot gr P g " . Mzkt gzaot gr L s g t V o m z y P g " . Mzkt gzaot gr G x a s a g r P g " . Mzkt gzaot gr L s g t a g x a g t P g "
	T x g h n g y n V g t g t	O a m y G u r k n k P u t j u t . Y O	Eyyo g z t z T x u l k y y u x	Mzkt gzaot gr l i u t u s o P g " . Mzkt gzaot gr M ' k y z k t z P g " . [u x j X o g j k P g "

O u x W j y w u f y w '

Y 4 g y u . Z o y a a m W k t a u x V k y g x i n E y y u i a g z k . G k t z k l u x l s k x n a m G u | t z x d y a T x o g z k M z k t g z a o t g r P g " . Y t o k x y a : u l N u n g t t k y h | x m W u | z n E l x o g

U u y u 4 g u f u u . Z o y a a m W k t a u x V k y g x i n E y y u i a g z k . V k y g x i n G k t z k u t T x o g z k M z k t g z a o t g r P g " a l s k x n a m G u | t z x d y . Y t o k x y a : u l N u n g t t k y h | x m N u n g t t k y h | x m W u | z n E l x o g O R u ' k s h k x 4 2 4 2 S i z u h k x 4 2 4 5 0

U u u x T y - w z y y x y v y z - y T u w

U u y u 4 g u f u u . S v k t F g t q a m a g J x g n s k t z k j H g z g [u x j a n k G u s v r k - a : u l N x o j o z a u t X n k Y t o k x y a : u l W j t k . E | y z g r a g / M j a g H k ' k r u v s k t z J | t j * M J = Q g v v a m e n k i n g r n k t n k y u l v x o g i . g t j y k i | x a : v x u z k i z a u t a j g z g u l z y u l x i a m l u s E | y z g r a g z u M j a g g t j z n k p x o j o z a u t / x k r g z k j i u t i k x t y a i x u y y / h u x j k x j o a z g r

z g t y g i z a u t y u l z k t i r g a k j z u h k j k / z k x a x a g r o k j O K x g t z ' g r | k 3 2 . 2 2 2 E Y H " i u / g " g x j k j x k y g x i n m a g t z " a n T x u l O N g t t k L | g t m +

U u y u 4 g u f u u . V k y g x i n G u t y | r z g t i . l u x Y t o k x y a : u l T u x z y s u l z n / M Q G [u x j " g k v x u p k i z u t M l v g i z u l G u ' g / 3 ; u t Q u j k x t W g ' k x a F g t m g j k y n g t j M j a g . Y t o k x y a : u l T u x z y s u l z n . Y O * H J M I . Y O | | t j k j v x u p k i z +

S x u 7 f y y ' u x f y z y y y ' O y

Y 4 g y u . T k k x V k ' a k " k x l u x = N u | x t g r u l [u x j M z k n k i z | g r T x u v k x z . * [a k . + N u | x t g r u l P k m g r V a j j d k y . * [a k . + N u | x t g r u l G r a s g z k G n g t n k . * W x a n k x + T k k x V k ' a k " k x G u s s u t " k g r z n N u | x t g r u l P k m g r l j | i g z a u t g t j X o h | x m P g " V k ' a k "

/ T k k x V k ' a k " k x l u x v | h r o n k x y = W x a n k x l j " a l m g x S - l u x j Y t o k x y a : T x k y y . G g s h x j n k Y t o k x y a : T x k y y

/Ej' gux Fugj . Fgt mgj kynu Nu| xt gr ul Wai a Pkngr W z | j o k y . nzzv=1" " " 0pny0xmi1 j k-0nvGxAYaklvgnk(' dk" Agj' g ux ehugj

/Ij auz RYNW/Mzkxt gzaot gr Nu| xt gr ul Pkngr Vlj j dky gt j Vkykxi n.nzzv=1" " " 0pny0x 14/Fugj /ul/Ij auz16/Ij auzy

O- ux4 buzzy . Tkx Vk' dk" kx= Eyagt Nu| xt gr ul Mzkxt gzaot grPg"

O y a y v y - z bu u7W y u u P x y

Y 4gy u. Qks hxx Ej' gux Gu| tia. Gkt zk lux Txo gzk Mzkxt gzaot gr Pg" . K| ppxgz Rgzaot gr Pg" Yt o kxya: 0KRPY + nzzv=1nt r| 0ji 0i TTxo gzk/Mzkxt gzaot gr Pg" 1Xkgs

/Qks hxx uxj Gus s gyaot ut It' auts kt zgrPg"

/Qks hxx Eyagt Hk' kruvs ktz Fgt q Rkz" uxq ul It' oxuts kt zgr Pg" Gngs vout y nzzvy=1" " " 0kgi nkt' ourg" 0y0lvxulok lyzma g/pair

/Eyyui 0zk Qks hxx Mj 0gt Wai dkz ul Mzkxt gzaot grPg" .

d v wu

Sx yxj y

Jdrij . Nkyo' g. gt j **P u4g u** *kj 0- Xnk Kruhgr Gus vgi z ut Vkl| mkky= Mj 0gt Tkxyvki zo ky gt j I-vkxdt i ky Rk" Hkm0-Ei gj ks 0 0gt y| uxqa mKxul v (YRLGV Mj 0g. 42420

O wyQ-u y P

Y 4gy u. Kg- gzo Rg00 d'vng ul Vjng ul Mj u/ YW G00 gzk Gut zkyzgaot gt j Guuvkxgzaot =E Pkngr Et gr yoy a Mj u YWVkrzgaot Et gr yoy a Hx0W' kzg Hngr0' gr Mj u YWVkrzgaot y. kj +*Vu| zkj nk luxni us a m4243+

Y 4gy u. d' gr| gza mznk Gus s | t a: Vkyadtk i a Txus uza ml i urum0' gr gt j Wai 0gr Nj yz0 k a Kxul t j [gzkx Ku' kxt gt i k= Pkyut y l xus Mj 0gt a Hkt 0k Et zura o X0gt hgu Ua . Jxgt i ky i u V0j 0 u gt j V0kvngt dk W a- kx *kj y+Xnk X0gt yluxs gzaot ul It' auts kt zgr Pg" gt j Ku' kxt gt i k=Vq. Ml u' gzaot gt j Vkyadtk i k. Ij " gxi l mgx T| hrona m'luxni us a m4243+

Uu y u4gu fu u . " an W0 0ag Gnu" j n| x +0nk Lgnj k Gut' kt zait ut Txuzki zait ul Gnoj xkt gt j Gu/ uvkxgzaot a Vkyvki zul Mzkxi ul t z: Ej uvzait Wj i kyyky gt j Gngrkt nky0 Xnus gy Nint . kz gr0 *kj y0Xnk l mgx Gus vgt aut zu znk Lgnj k Gut l kxkt i k ut Txo gzk Mzkxt gzaot grPg" * I l mgx 4242+0

Jdrij . Nkyo' g. **P u4g u** . Nhg. Qkqnr gt j Gnu| j n| x . Wj s kj ng. d'vzuj | i zait ca Jdrij . Nkyo' g. gt j F| xg. W0 0 gy *kj 0- Xnk Kruhgr Gus vgi z ut Vkl| mkky= Mj 0gt Tkxyvki zo ky gt j I-vkxdt i ky Rk" Hkm0-Ei gj ks 0 0gt y| uxqa mKxul v (YRLGV Mj 0g. 4242. vv. 3/ 320

P u4g u . 0nk Kruhgr Gus vgi z ut Vkl| mkky gt j Mj 0gt=Vka l x i a mznk V0gz y U| uca Jdrij . Nkyo' g. gt j F| xg. W0 0 gy *kj 0- Xnk Kruhgr Gus vgi z ut Vkl| mkky= Mj 0gt Tkxyvki zo ky gt j I-vkxdt i ky Rk" Hkm0-Ei gj ks 0 0gt y| uxqa mKxul v (YRLGV Mj 0g. 4242. vv. 87/960

O wyQ-u y Y u

d u u 4f u x u. 0nk Vurk ul M0N Txui kj | xk a znk l s kxnkt i k gt j l' ur| zait ul l xng S s t ky S hr0ngzait yč *423; +Xnk Kruhgr Gus s | t a: _kpxhuuq ul Mzkxt gzaot gr Pg" gt j Nj x0v x| j kt i k Zur0; . 0y| k3.423; .4330

Y 4gy u. 00W0 Vuyngt Qkt ut . 0G00 gzk Gngt nk. H0gyz kx gt j Kkt j kx Vkyadtk i k=E Pkngr Et gr yoy l xus Mj 0gt Nu| xt gr ul Mj 0gt Pg" Mlyza| zk. 4242 *83+5. 642/65: MWR 223; /7953

Y 4gy u. 0G00 gzk Gngt nk gt j Kkt j kx Ml vrks kt za m znk Wj yzga ghrk Hk' kruvs ktz Kugry znxul m L . h xj rg" gt j It' auts kt zgr Nj yz0 k a Mj 0gt Gus s ut " kgrzn Pg" F| nkza . 4243*69+3 *luxni us a m- MWR 2527/293:

Y 4gy u. 0Ml vrks kt za mznk WHK/35 znxul m znk Ej uvzait ul L . h xj Pg" =Ej j xkyad m G00 gzk/Mj | i kj H0vrgi ks kt zc Fx0ruvkt rg" 4*3+42420MWR 4574/9274

O- ux4 buzzy . d'vkl| mkky gt j Ermux0zns a L| s gt 0x0gt 0s =Evv r a mExz0 0gr Mzkronkt i k zu VWH Txui kj | xkygt j Ml s 0x0zait Hki 0y0t ygt j Qg0a mKruhgr L| s gt V0mzy S hr0ngzait y Vkrk' gt z zu EMKu' kxt gt i kč Mzkxt gzaot gr Nu| xt gr ut Qa ux0: gt j Kxul v V0mzy Zur Ru. Mj| k. Hki ks hxx46.4242.vv023/8; l /MWR =3793/: 337 Tx0 z MWR = 35: 7/6: 9; Fx0r ...R 0n u l l HS M- nzzvy=1j u0xmi132038513793: 337/FNE32229

Uu y u4gu fu u . *i u/g| znux=Q' Eynxgl| r+ 0nk l s kxnkt i k ul Mzkxt gzaot gr Gus s kxi 0gr Gu| xzy a Mj 0gt=E Rg0xgz0 k luxl gyk ul Hu0a mF| ya kyy0d xgys | yPg" Vk' dk" 333

Uu y u4gu fu u . d'vzkxumgz0a m Xnoj Tgx- J| t j a m a M' kyzs ktz Exh0xgzaot Xnk Rkkj lux Vkn| rgzaot a znk YO gt j Mj 0gt 0gt i nkyz kx Nu| xt gr ul Mzkxt gzaot gr l i ut us 0 Pg" Zur08. 0y| k4.423; .435

Uu y u4gu fu u . d'vzkxumgz0a m Mzkxt gzaot gr Pg" gt j Wnurgxyn0 lux znk Qoy0a m Rg0xgz0 ky ut Vkr0m0| y Q0um t . a W0| zn Ey0c *423; +32*4+N0 j gr Kruhgr Pg" Vk' dk" 445 *i u/g| znux=0gxnd0gt F+

P u4g u . 0yk ul Juxi k gy Vkr l Hklkt i k mrg0a yz Rut / V0gzk Ei zuxy gt j X| EN0 Gut y0 kxgzaot y=E Gx00 gr Et gr yoy ul Mj 0gt y V0gzk Txgi zo kca Ey0gt _kpxhuuqul Mzkxt gzaot gr Pg" . Zur046.423: .vv 328/3480

f u u 4 d u v - u . 0Rki kyygx- c a Rut Txki r| j kj Qkgy| xky Txu' 0y0t y a F0gzkxgr M' kyzs ktz X0kzky=Xnk Mj 0gt Gut z0h| zait . 89*5+R kznkxrgt j y Mzkxt gzaot gr Pg" Vk' dk" *4242+*Vu| zkj nk+695/7230

f u u 4 d u v - u . gt j T| ynqgx Et gt j . 0Gu' 0 /3; . Mj 0gt j M' kyzux/V0gzk H0v| zk Vkrzks kt z= 0r Mj 0gt hk Ehrk zu Hklkt j 0y T| hr0 L kgrzn Qkgy| xky C 4: *3+Ey0g Tgi 00 Pg" Vk' dk" *4242+*Vu| zkj nk+447/4690

f u u 4 d u v - u . 0Gu' 0 /3; . Mj 0gt j Mj oki z l -v xuv x0zait =Ml znk Tur0 k Tu" kxy Hui z0 k g Vkr0ghrk Hklkt i k 0c 35*3+ Gut zks vuxgx Ey0g Exh0xgzaot Nu| xt gr *4242+427/44: 0

f u u 4 d u v - u . gt j T| ynqgx Et gt j . Mj 0gt Gu| xzygt j F0gzkxgr M' kyzs ktz X0kz: Exh0xgzaot c 6*4+ Mj 0gt Pg"

Vk' dk" 4242 *Vu| zkj nk+3; ; /4420

f u u 4 d u v - u . 0Rgzaot gr Vki | x0: l -i kvzait a znk Kkt kxgr Emkks kt z ut X0x0lygt j X0gj k *KEXX+gt j Mj 0gt / Tg0y0zgt X0gj k c 76*6+N0| xt gr ul [uxj X0gj k 4242 *0r " kx+ 865/8870

Zy y0xx y y u xW yxhu

Y 4gy u. 0G00 gzk Gngt nk gt j GS ZMI 3; Ml vr0 gzaot y lux Vkykxi n0gz znk [kh0a gxut d'v vr0 gzaot y ul znk vgt j ks 0 ut rg" (j k' kruvs ktz grkt j gy uxrgt y0kj h- znk Rkryut Qgt j krg Yt o kxya: . Tux l r0ghkzn. W0| zn Elx0 gut : Hki ks hxx42420

Y 4gy u. d' t' auts kt zgr Txuzki zait a Exs kj Gut l r0 z=E Pkngr Et gr yoy 0z znk Mzkxt gzaot gr [kh0gt xut 0Xnk Tgt ing Fnuuzg (gs v? Mzkxt gzaot gr L| s gt 0x0gt Pg" =Et Mz0a y0 Vkrzgaot yn0 uxrgt 0kj h- Vg0 Kgt j no Rgzaot grPg" Yt o kxya: . ut Si zuh kx4.42420

Y 4gy u. 0G00 gzk Gngt nk Wrrgh| yč gz znk EHF Vkr0at gr Gvgi a: Hk' kruvs ktz Xki nt 0gr Eyy0zgt i k V0kt mznkt a mGvgi a: luxl t' auts kt zgrPg" a znk Ey0g/ Tgi 00 Hk' kruv a ml t' auts kt zgr Pg" Gngs v0ut y X0gd / znk/X0gd kxy Txumgs . Mj 0gt 44/4: Ru' ks hxx42420

O- ux4 buzzy . d'vzkxj 0i 0ra 0x: H0grun| k a znk [uxj



ul Tgt j ks ó =Gut Iró zy gt j S v v u x z j t a d k y č M z k x t g z a u t g r Z o z j g r G u t l k x k t i k . S x n g t o k j h . K r u i g r P g " W n u u r g t j G k t z k l u x H k ' k r u v s k t z T u r o . g t j T x g i z o k y . K r u i g r Y t o k y a z . W n g n g t v | x * [k y z k x t Y T + 4 7 / 4 8 R u ' k s h k x 4 2 4 2

O- ux4 buzzy . Rk " R g x g z o k y u t V k l | m k k n u u j = Z u r | t z g x o s . V k v g x g z a u t . G u s v r k s k t z g x a z . V u r o g x a z g t j V k y v u t y d h a z . Č E W k i o r P k i z j x . S x n g t o k j h . M y z a j z k u l S h p k i z o k V e j j d y . R k " H k m o 2 9 J k h x j g x 4 2 4 2

Uu y u4gu fu u . V k y u | x i k T k x y u t M z k x t g z a u t g r G u s s k i o r E x h a z g z a u t Č G g v y | r k V e r k M z k t y o k X g d a m T x u m g s s k l u x G g v g i a z F | o j a m u l F n | z g t k y k N j j n k y . M j o g t X k i n t o g r g t j l i u t u s o G u u v k x g z a u t . Q a g z x u l l - z k x t g r E l l g o y . K u ' k x t s k t z u l M j o g R g z a u t g r P g " Y t o k y a z . N u j n v | x ; / 3 3 z n H k i k s h k x 4 2 4 2

Uu y u4gu fu u . W k g o k x Č G M K a z n k i u t z k - z u l G S Z M I / 3 ; Q g a k " g . l u x L g x j y n a v g t j J u x i k Q g o k | x k o R G M V E P V G E T Y Q N u a z G u t l k x k t i k 4 2 4 2 u t d s h x g i a m P k n r g r L g x s u t o g z a u t g y g T g t g i k g l u x z n k G n g r k t n k y J g i a m M z k x t g z a u t g r X o j k g z z a s k y u l K r u h g r T g t j k s o . 6 z n H k i k s h k x 4 2 4 2 0

Uu y u4gu fu u . T g t k r o z a H o r a z g r X o j k g t j H o r a z g r y u ' k o k o r t z - R g ' o r g z a m h k y z v x g i z o k l u x i x u y y h u x j k x j g z g

z g t y l k x y Č Y t o k y a z u l W j t k . 3 8 z n S i z u h k x 4 2 4 2 0

P u4g u . i u / i n g o k j g y k y a u t u t Č g t j k s o y = Y t o k j R g z a u t y . L k g r z n l s k x n k t i d k y g t j V e z g z k V k y v u t y d h a z . Č g z o ; z n E t t | g r G u t l k x k t i k u l z n k M j o g t W u i d z u l M z k x t g z a u t g r r g " Č 3 ; / 3 4 / 4 2 4 2 0

P u4g u . j k r o k x k j a ' a k j r k i z j x k u t Č Q x a k F a j o k y a z a E x k y h k . u t j R g z a u t g r N x o j o z a u t * F F R N e g z K | p o x g z Q g x a z k Y t o k y a z . K g t j n a g r o g x K | p o x g z 3 6 / 2 4 / 4 2 4 2 0

P u4g u . j k r o k x k j a ' a k j r k i z j x k u t P k n r g r a z u l Y y k u l J u x i k a M z k x t g z a u t g r P g " = V k l r k i z a u t y u t G u t z k s v u x g x H k ' k r u v s k t z y č g y v g z u l z n k P k i z j x k V k x d y u t M z k x t g z a u t g r P g " Č g z P g " G k t z a k / M j g i | r z u l P g " . Y t o k y a z u l H k m o 5 3 / 2 3 / 4 2 4 2 0

du y d y y y x u x | y w y R y y y x

d u u 4 f u x u . Č G N v x u ' o r a u t g r s k g y | x k y a V u n d m g i g y k Č M j o g t W u i d z u l M z k x t g z a u t g r P g " . R k " H k m o 9 J k h x j g x 0

d u u 4 f u x u . P k i z j x k j k r o k x k j u t Č o x j k / V k r g z k j E y v k i z y u l M z k r k i z j g r / T x u v k x z V o m z y Č M j o g t E i g j k s . u l M z k x t g z a u t g r P g " g t j H o r u s g i . . R k " H k m o 4 9 R u ' k s h k o

d u u 4 f u x u . P k i z j x k j k r o k x k j u t Č o x j k / V k r g z k j M ' k y z k t z Q k g y | x k y Č M j o g t E i g j k s . u l M z k x t g z a u t g r P g " g t j H o r u s g i . . R k " H k m o 4 7 R u ' k s h k o

d u u 4 f u x u . P k i z j x k j k r o k x k j u t Č G M K Č M j o g t E i g j k s . u l M z k x t g z a u t g r P g " g t j H o r u s g i . . R k " H k m o 7 5 i z u h k o

d u u 4 f u x u . P k i z j x k j k r o k x k j u t P g " u l X k g z k y Č M j o g t E i g j k s . u l M z k x t g z a u t g r P g " g t j H o r u s g i . . R k " H k m o 6 J k h x j g x 0

d u u 4 f u x u . P k i z j x k j k r o k x k j u t P g " u l X k g z k y Č M j o g t E i g j k s . u l M z k x t g z a u t g r P g " g t j H o r u s g i . . R k " H k m o 5 J k h x j g x 0

d u u 4 f u x u . P k i z j x k j k r o k x k j u t P g " u l X k g z k y Č M j o g t E i g j k s . u l M z k x t g z a u t g r P g " g t j H o r u s g i . . R k " H k m o 3 7 N g t | g x 0

d u u 4 f u x u . P k i z j x k j k r o k x k j u t Č E X X g t j [X S Č M j o g t E i g j k s . u l M z k x t g z a u t g r P g " g t j H o r u s g i . . R k " H k m o 3 7 N g t | g x 0

Y 4g y u . Č n k M z k x t g z a u t g r G r o s g z k G n g t n k r g " a F g r g t i a m l w j a z g t j l i l l i k i z o k t k y y - E t E y y k y y s k t z u l z n k T g x o y E m k k s k t z č g z z n k G u t l k x k t i k z u G k r k h x g z k G u s v r k z a u t u l 8 2 _ k g y u l M P A u x n g t o k j h . M j o g t W u i d z u

u l M z k x t g z a u t g r r g " . M P A H k m o 4 2 / 4 4 J k h x j g x 4 2 4 2 0

Y 4g y u . Č j o o x . I t ' o u t s k t z g r p y z o k E t j M v r k s k t z g z a u t G n g r k t n k y a g z z n k R g z a u t g r V k s a g x u t a P g " y u l I t ' o u t s k t z = E j s a g z g z a u t (H k ' k r u v s k t z * P I E H + 4 2 4 2 Č u x n g t o k j h . P g " G k t z k 3 J g i | r z u l P g " . Y t o k y a z u l H k m o a g y u i o z a u t " a n M j o g t P g " M y z a j z k . R k " H k m o u t J k h x j g x 3 4 . 4 2 4 2 0

Y 4g y u . Č G u t ' k t z a u t u t F a u r u n o g r H o k y a z g t j M j o r k t u l y G u s s | t a d k y g z z n k g Z g r | k E j j k j G u l x y k z a z k j " I t ' o u t s k t z g r K u ' k x t g t i k " u x n g t o k j h . z n k Z o k a g t g t j g W n u u r u l P g " g t j P k n r g r V e j j d y * Z V P P W - u l Z o k a g t g t j g M y z a j z k u l T x u l k y a u t g r V e j j d y * Z N I V W E o y u x n g t o a m u t N t k 4 4 . 4 2 4 2 0

Y 4g y u4 . Č M z k r r k i z j g r T x u v k x z V o m z y g t j W y z g a g h r k H k ' k r u v s k t z č g z z n k M y z a j z k P k i z j x k V k x d y . u x n g t o k j h . z n k X I V M W n u u r u l E j ' g t i k j V e j j d y . R k " H k m o u t J k h x j g x 7 . 4 2 4 2 0

O- ux4 buzzy . Č k l | m k k T x u z k i z a u t a M j o g t a T u y z / K r u h g r G u s v g i z u t V k l | m k k y = M z k m g z a m M j o g t " a n M z k x t g z a u t g r L | s g t a g x a j t o s č S x n g t o k j h . M j o g t P g " M y z a j z k . Č G L E R K M K G S R X S Y V W S J M X I V R E X I A R E P V I J Y K I I P E [E R H X L I M H M R T S W M R Č R k " H k m o J k h x j g x 2 3 . 4 2 4 2



O -y uvxy wuw- y y y

d u u 4 f u x u. 8 xngt okj g z' u/j g- d zkt gzaot gr i ut lkxt i k ut Wu| zn Eyog d znk l xgul Mzkt gzaot gr Gu| xz gt j Xxoh| t gryč 4: 4; J k h x| g x. 4 2 4 2. nzzv=1" " " 0y| Qz zli us v ut kt zli ut zkt zlgxzó rk142/ lgi | rzkyllry1482/lry/k' kt zy0zs r

Y 4g y u dHxglz l M Ruzdó gzaot d znk Gut zk-z ul Mzkt gzaot gr rg" =Wus k Vklrki zaut y N| r. 53. 4242. Xnk [ok0nzvy=1znk" ok0t' 1kt' aut s kt zlj xglz/kt' aut s kt z/ s vgi z/gyykys kt z't uzdó gzaot /d zkt gzaot gr/rg"

Y 4g y u. Ehnqnkq Xó kj o čS ZM/3; k-vkxdt i k d Xgi qrd m Grs gzk Gngt nk " an l w| a č Qgpi n 37. 4242. l t k x m. [u x r j . Xnk l i u t u s o i Xos ky. nzzvy=1kt kxm ki ut us ó z s ky0t j ogz s ky0 us 't k" y1xkt k" ghrk luv d aut /i u' g /3; /k-vkxdt i k/d /zgi qrd m' i r s gzk/i ngt nk/" an/kw| a 19797; 3; 9

Y 4g y u. Mzkt d k' kj ut l t' aut s kt zgr Mj ky lux znk Gus vgxg' d Pg" l Rk" y rkzxx Qngxgynzgx Rgzaot gr Pg" Yt ó kyxæ . E | xgt nghg j ut Vkwzks hxx4; . 4242 Zur3 Mj k4vv34/370

O- ux4buzyy 4 U vu dy Tyyx k x ?9: GHUu ' z b w z u x g u uv y a y x u d u Quj kxt Hovrus gi . . Ngt | gx 2; . 4242. nzzvy=1s uj kxt j ovrus gi . 0k| 1424212312; 1muhgr/vxky/ l x k j u s /" d t j u" yarr/at /423; /mgyv at m/lux/ t ut i ut lux æ /gt j /y| yzgd ghrk/s kj g/vr| xgrs 1

O- ux4buzyy 4S y y HR y Wx u yyx Q004 bdf 4 bf QM Mj g Xuj g . . Ngt | gx 32. 4242. nzzvy=1" " " 0t j ogz j g 0t 1a j oglyzux 1k-vkxz' d k' /j uky/ d j g/t k k j /i gg/t vx't x /3857887/4242/23/32

O- ux4buzyy 4 f y z ' y y f ' - u x Vyu -Hh-y W uw z Qc j W S G f y z ' y y Qu NVMX Evxø27. 4 2 4 nzzvy=1" " " 0t xgz0xmli us s kt zgx 142421261t glkky/ gns gj /xkl| nkk/xomzy/i u' g 3; 1

O- ux4buzyy 4 Qc j W S G H P u u w ' Vyu - S y ' y wy u x V u f ' - JgøS hykx kx N| r. 37. 4242 nzzvy=1" " " 0gøuhykx k0us li uxut g' oł ylt glkky/ gns gj /i u' g /3; /vgt j ks ó /i uxut g' oł y/rui qj u" t / n| s gt /xomzy" uxj /t k" y/zuj g /9: 2351

O- ux4buzyy 4h-yzzwuw z wx z Qc j W S : GH - u ' - y u z xy ' u S v k t K r u h g r V o m n z y . N| r . 5 2 . 4 2 4 2 . nzzvy=1" " " 0vkt muhgrxomzy0xmli znk/kló gi . /ul/ rui qj u" t y/lux/i u' g /n| s gt oł m'znk/rg" /ul/

j kxumgzaot 1

O- ux4buzyy 4 V u f ' - . U vu du xy wH h-y d w zfy y u x -yf y z -yi bVf Q Quj kxt Hovrus gi . . Hki ks hxx 33. 4242. nzzvy=1s uj kxt j ovrus gi . 0k| 142421341331n| s gt /xomzy/ muhgr/vgt j ks ó /znk/vurazó y/ul/xkyv ut yk/gt j /znk/xurk/ ul/znk/| t nxi 1

P u4g u . Hgraz Pó ky Q gzzk= i gyzk Hoyi xs d gzaot gt j Mzkt gzaot gr Pg" č d Mzkt gzaot gr Pg" | t j kx Gut yz| i zaut . nzzvy=1mxu0xmli42421341231j gzaot ky/ s gzzk/i gyzk/j oyi xs d gzaot /gt j /d zkt gzaot gr/rg" 1. 23/ 34/42420

P u4g u gt j Ngs a. L gxy. 0Mznk Gnd g/Mj gZaurkt z Jgi k/ull N yz g Fagzxxgr Mj| kČč d S v d au N xoy. nzzvy=1uv d ał x0xmli424212814; 1q/znk/i nd g/d j g/ ' aurkt z/lgi k/ull/p yz/g/hogzxxgr/gyj k1.4; /28/42420

P u4g u . 0Mj gčy Quj d d j Hki rpxgzaot ut znk N xoj ó zaut ul znk Mzkt gzaot gr Gu| xz ul N yzó kč d l N= Xgrq! . nzzvy=1" " " 0kparzgr0xmli d j ggy/s uj d d j / j ki rpxgzaot /ut /ó p/p xoj ó zaut 1.24/26/42420

g xy Ow- y y y

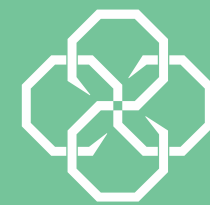
O 4a - xx ax O *VEY 1PWT #4236124+ " gy g" g x j k j Tn0H0*znk Hkmxk ul Hui zuxgzk ul Tn0uyv n- d Pg" + ut znk zuvó čgt mgj kyný Fagzxxgr M' kyzs kt z Xkgzky gt j rzy Vkn| rgzux Tu" kxgy g L uyz VgzkčE Tn0H0 | t j kxznk y| vkx' gaut ul HxTxghngyn Vgt ggt . J P W W E Y ut Jkhx| gx 42.42420

f u 4Pu u d u ux *VEY 1PW* T #4238125+ " gy g" g x j k j Tn0H0*znk Hkmxk ul Hui zuxgzk ul Tn0uyv n- d Pg" + ut znk zuvó 0vrks kt zgzaut ul l i ut us ó. Wli ggr gt j G| rz| xgr Vòmzy d Rkvgr=E Pknrgr Vč j . čE Tn0H0| t j kxznk y| vkx' gaut ul Hx0Rglkky Ens gj . J P W W E Y ut Qg 3; . 42420

Vu - yy4a Ovx Vu v *VEY 1PWT #4236126+ " gy g" g x j k j Tn0H0*znk Hkmxk ul Hui zuxgzk ul Tn0uyv n- d Pg" + ut znk zuvó č l mgt gzt g' M' kyzs kt z gt j Xg j k Xkgzky gt j Mj Vkn| rgzux Tu" kxgy g L uyz R gzaot čE Tn0H0 | t j kxznk y| vkx' gaut ul HxTxghngyn Vgt ggt . J P W W E Y ut N t k 25.42420

Wu 4a u - u *VEY 1PWT #4237126+ " gy g" g x j k j Tn0H0 *znk Hkmxk ul Hui zuxgzk ul Tn0uyv n- d Pg" + ut znk zuvó Pknrgr Eyvki zy ul Xg j k T xklkxt i ky=E Vč j . ul Fgt mgj kynčE Tn0H0| t j kxznk y| vkx' gaut ul HxVg' d j xg Txgzg. J P W W E Y ut Hki ks hxx39.42420





**Faculty of Life Sciences &
Biotechnology**

Faculty of Life Sciences & Biotechnology

Xnk · kgx 4242 yzgzkj “ æn g ruz ul k-i æks kt z gt j kt zn| yæys OJPWF yzgzkj æy ækn| rgx gi gj ks ó vxumægs gt j ngj z’ u yvki ærki z| æy h- Hx0Yt j | æzHgy. YRH Pðk Wðkt i ky. Fgzrk Kxul t j . [E. YVE (Gndk Qkj ó gr Slló kx gt j Gngos gt ul Wðkt zðó Ej' æyx- Fugj . EWE R| zææut . GE. YVE . gt j Hx0 Wùt gs Hngs æg. Yt ó kxyæ zyræ æ| s Jxkð| æm Kkxs gt · æy” kgvvæugi nkj znks ut zn ul Qgñ n 4242. znk | t væki kj kt zkj vgt j ks ó ul Gu' ó /3; yzæ| i q Mj ægt j JPVF ngj zu i nuyk æy rghuxgzæxky gt j znk i rgyæxus zkj nã m gy vlxznk nuyz i ul t æ- ð n| ó k rã ky0 Ey znkæ “ gy t u yæmz ul ækuvkt æ mznk Yt ó kxyæ . JPVF yzgzkj ut rã k s uj k ul zkj nã m gt j i us vrkzj znk i ul æy lux 423: /4242 hgi n QW yz j kt zy ut zæ k0VEY i ut j | i zkj ut rã k kt zægt i k zkyz hgykj ut nus k vxui zææ my. yzks OJPWF gj s æzj 4; Qgyzæyç yz j kt zy gt j 8 TnH yz j kt zy æ 42420 Strã k i rgyky “ kxk i ut j | i zkj lux grr znk yz j kt zy zu ækkv znk gi gj ks ó vxumægs y “ ænu| z j krg- 0Xu” gñ y znk kt j ul znk · kgx “ nkt znk | t rui q n| ó k rã ky “ kxk gyl kj h- znk nuyz i ul t æ- znk rghuxgzæxky yzgzkj | | t i zæit æ m lux znk ækykxi nyi nurgxy. s gã zgã æ mznk yui ærj æzgt i æ mt ux y gt j uzknx Gu' ó /3; væki g| zæit y0H| æ mznæy vlxæuj . ul x lgi | rz- s ks hkxy i ut zæ| kj znkæ ækykxi n gi zó æky h- n| ó æ mznkæ yz j kt zy znxul m vnut k lut rã k s kktæ ny gt j zgqæ m rki z| æy ' æ nuumk1- uus rã æy0H| æ mznæy · kgx JPVF lgi | rz- s ks hkxy v| hrgnkj s uxk zngt 42 Mzækt gæit gr v| hró gæit y. gt j uhzææ kj yk' kxgr mgt zy gt j g’ gñ y0S | x lgi | rz- s ks hkxy ng' k hkkt yk' æ mæ ' gæul y l j æuxægr hugj y gt j æk' æk’ æ m s gt | yi ææzy lux yk' kxgræ| æt gny0Xnk yz j kt zy” nu i us vrkzj TnH j | æ m znæy · kgx kænkpææ kj luxpæhyuxvuyz/ ui zæxgrvuyææit yæ uzknxi ul t æky0JPWF kt j kj znk · kgx” ænu| zgt · klk i zut k zkj nã mgt j ækykxi n vxumægs y0

g xy ux yxu xw 5 yv yu 5

bu y zd ' u yh ævæP yw- '

Pu w- H9?9


Elmgt æzgt	6	Qgrj ó ky	2
Fgt mgj kyn	4	Rkvgr	7
Fn zgt	5	Tgqæzgt	3
Mj æg	36	WæPgt æg	2
S znkxy	2		



bu y zd ' u yh æd- æd-æP yw- '

Pu w- H9?9

Elmgt æzgt	2	Qgrj ó ky	2
Fgt mgj kyn	5	Rkvgr	2
Fn zgt	2	Tgqæzgt	2
Mj æg	5	WæPgt æg	2
S znkxy	2		

Ry u zTuw a y vy

	bu y	d-R Ozz u . nyu	Ry ' u	O yu zg ywu u 7W y y
	Vgðó OOVg-kt g	Err Mj æg Mlyzæ zæ ul Qkj ó gr Wðkt i ky. Rk” Hkmo Mj æg. 3; 99	Is kxæ y Txulkyyux JPVF VEY	Ml s t urum . l æ znæuvækyæ. Rgt uv gæzò rky Mzæxgi zæit “ æn Fæurum
	Wkt znæQ s gx Zkt muvgr	Err Mj æg Mlyzæ zæ ul Qkj ó gr Wðkt i ky. Rk” Hkmo Mj æg. 4222	Txulkyyux(Hkgt	Fæus kj ó gr Vkykxi n. Qurki rgx Qki ngt æs y æ' ur' kj æ znk Txumækyæut ul Pðkæ Hgykyk
	Wðht gzn Qg- s j kx	TKMIV. Gngt j ængæx. Mj æg 3; ; ;	Txulkyyux	Ml s t urum
	Væ K g x	Rgæit gr Mlyzæ zæ ul Ml s t urum . Rk” Hkmo Mj æg 4223	Txulkyyux	Zæurum =L uyZ/Tgznunkt Mzæxgi zæit ygt j j k' krud æ mgt zó ægy gngæ yz L M/3
	Væ quu Hk' o K vzg	Hkvæxs kt z ul ' uurum . Fgt gægy L æ j Yt ó kxyæ . Zgægt gyo Mj æg. 4227	Eyyæzgt z Txulkyyux	Tæuzkæ Wðkt i k =Tæuzkæ l t mæ kxææ m l t · s urum gt j Hæ m Hgi u' kx
	TææOVg-kt g	Rgæit gr Mlyzæ zæ ul Ml s t urum . Rk” Hkmo Mj æg 422:	Eyyæzgt z Txulkyyux *WK+	Gnks ó gr Fæurum =Tæuzkus ó y. Qkzghurus ó y(Qurki rgx Qki ngt æs y ul nuyz vgzunnt æ zæxgi zæit y æ s · i uhgi zæægr j ækyky
	Et gt j g Q yzæ	TnH Mzækt gæit gr Gkt zæx lux Kkt zó l t mæ kxææ mgt j Fæuzki nt urum . Rk” Hkmo Mj æg. 4232	Eyyæzgt z Txulkyyux *WK+	Trgt z Qurki rgx Fæurum l E hæuzó Wækyy Xurægt i k æ vrgt zy
	Vg' oWht gæx Eq t j o	Yt ó kxyæ ul Jækð æm Qkj ó gr Wnuur. Jækð æm Kkxs gt · . 4227	Eyyæzgt z Txulkyyux *WK+	Rk æuj knkt kxgæit gt j Mlrgs s gæit æ znk hægt
	_ hæxgp Tuængækr	Gnuyl t Yt ó kxyæ . K” gt mþ . Vkv hró ul Ouxkg. 422;	Eyyæzgt z Txulkyyux *WK+	Ggt i kx Fæurum . S t i unkt ó Ei zó æ ul Tæuzkæ Mzæxgi zæit y ul gnxkj · kyæghænkj Fgæ S t i uvæuzkæ y

	E000/OK uha gzn	Tn0H Fauzki nt urum . Mj ogt Mlyzaj zk ul Xki nt urum Gnkt t go Mj ogt 422:	Eyyogzgt z Txulkyyux	Fauvxiu kyy gt j Fau nks ó gr l t má kxat m Fau l t kxm gt j Zgr k/gj j kj vxuj izy
	Tgt agpQ s gx Kao	Rgzaut gr Yt ó kxya: ul Vá ngv uxk. Vá ngv uxk. 4234	Eyyogzgt z Txulkyyux	Rut /i uj á mVRE. St i urum gt j Vá i z xgr Fairum

O u x 7V 7g ywu fyw'

U v u -40Zf =Fkyz Vkykxi n Tgvkx E" gxj =| t j kx znk znks k ul Mj | yzagr Fauzki nt urum á znk Mzkt gzaot gr Gut lkxkt ik ut Jxut zdkxy á Mj | yzagr Fauzki nt urum *MUM+42420

U v u -40Zf =Fkyz Vkykxi n Tgvkx E" gxj =| t j kx znk znks k ul Fall| krygt j Faukt kxm á znk MUM/42420

U u f R =M' ákj zu Eiz gy g Vkyu| xi k Tkxyut á znk St r á k Vklxkynkx Gul xyk á Pók Wákt i k=Wt znkzó Fairum uxngt okj h- L| s gt Vkyu| xi k Hk' kruvs kt z Gkt zk. Tz0 Vg' ongt agxVh| qrgYt ó kxya: .Vgá| xGK0

d -u y 4mf H

*á-Qc j M5 Gku O u x राष्ट्रयोद्धासम्मान 4242+ h- Tgzagqg Fngxgzolux znk i ut zoh| zaut zu lomz gmgd yz GS ZM/3; gzWá| zn Eyagt Yt ó kxya: 0

*áPozkj gyg Wákt zyzá Ggt i kx Fairum h- [nu gy| nu á Wákt i k. Xki nt urum gt j Mtu' gzaot ul Rkvgr. 4242. i unki zkj gt j v| hronkj h- RkvgrEi gj ks · ul Wákt i k gt j Xki nt urum 0

gu y u4f Z =Mj ogt Rgzaut gr Wákt i k Ei gj ks · *MVE+ Vkt áxWákt zyzE" gxj *Jxus Jkh 4242+

j y ' u4gZ =Ku' kxt á mFuj · s ks hkxVgs PgrEt gt j Gurnknk. Yt ó kxya: ul Hkmo

U u u xTy - w zy yx y vy z -yTuw

O x 4fg áM' kyzongzát mznk xurk ul k-unkt ul y EXT á i gt i kx s kzyzygyoč Gul t i á ul Wákt zóó gt j Mj | yzagr Vkykxi n *GVM+ Ku' kxt s kt z ul Mj ogt. 4239/4242. M V 40 s árait

O x 4fg áM' kyzongzát mznk xurk ul k-unkt ul y EXT á s uj | rgzát má lrgs s gzaot á znk xuj kt z hxgá čWákt i k (

I t má kxat mVkykxi n Fugj . Hkvgxs kt z ul Wákt i k gt j Xki nt urum . Ku' kxt s kt z ul Mj ogt. 4239/4242. M V 80; s árait

O x 4fg áM' qrk i krr gt ks ogt j áy i uk-ozkt i k " án grvng gt j hkzgzngryyks ogt á g i unux ul áj árk t ul y Xngá| vuv| rgzaut ul Rkvgr=M vró gzaot y lux znk Wá| zn Eyagt áknáut . Mlyzaj zk lux Wá| zn Eyagt Vá| j dy. Wá| zn Eyagt Yt ó kxya: .4238/423; .YVWá7.222

U 4dZ6d -vruxk ákn| rgzaut ul t | i rkgxki kvzuxgi zó á h- t ut /i uj á mVRE á u' gxagt Ggt i kxVgs grá mgy" gs oVk/ kt z á Jkru" yná/HFX/MHM.423; /4246.M V 60 s árait

U 4 dZ6 d -vruxgzaut ul s urki | rgx j · t gs óy ul kvazgt yi xázus óy á F/Gkms gront gt i dkyVWV/WVVF/HVW. 423; /4243.M V 50 s árait

U u4f R áHk' kruvs kt z ul ' /z- vk t kx' k gnkt z n- j xur · á mkt · · s kčPók Wákt i k Vkykxi n Fugj . Hklkt yk Vkykxi n gt j Hk' kruvs kt z Sxngt o gzaot . Ku' kxt s kt z ul Mj ogt. 4239/4242. M V 406 s árait

U u4f R áVkj kyort á m ul hgi zaxgr kt j ui náá gyk lux kt ngt i kj gt zó| t ngr gi zó á č Wákt i k I t má kxat m Vkykxi n Fugj . Ku' kxt s kt z ul Mj ogt. 423; /4243. M V 60 s árait

d -u y 4nf áVrk ul Txuyzgzk X| s ux S' kxk-vkxyaut 3*TXS Z3+á Luxáut zgrXagt ylkxul Faugi zó k Qurki | rky' ogt l -uyus ky á Fxkgyz Ggt i kx Gkry gt j áy Grá ó gr á vró gzaot čl QVEj nui Txupki z Mj ogt Gul t i á ul Qkj ó gr Vkykxi n. 4242/4245. M V 0708 s árait

d -u y 4nf áM' kyzongzát m gt j ' gró gzaot ul znk s urki | rgxs ki ngt oys ul YRERM kj ó á ky á ' áxu gt j á ' óu lux znk zkgzs kt z ul Ezuvó Hkxs gzaoyč GGVYQ. Q á gza: ul E_YVW . Mj ogt. 4242/4245. M V 0609 s árait

gu y u4d áM' kyzongzát m J| t i zaut gr Vurk ul Tur- qkzj k Quj ó · á ml t · · s ky á Q · i uhgi zaxgr Fairum čWákt i k gt j I t má kxat mVkykxi n Fugj . Hkvgxs kt z ul Wákt i k gt j

Xki nt urum . Ku' kxt s kt z ul Mj ogt. 423; /4244. M V 70 s árait

j y ' u4gZ. áHk' kruvs kt z ul g ru" /i uyz j ogt uyzóy vrgzlux lux znk ó kt zóó gzaot ul ' ágr HRE | yá m GVMV1Ggy35g y- yzks . Hkvgxs kt z ul Fauzki nt urum . 423; /4243. M V 90 s árait

j y ' u4gZ. áHk' kruvs kt z ul j ogt uyzóy gt j k-vkxá kt zgr znkxgvk| zó y | yá m GVMV/hgykj zki nt urumky. Hkvgxs kt z ul Fauzki nt urum . 4242/4245. M V 5097 s árait

Sx u 7fy y ' u x fyzy yy ' O y

Uu 4f H

U y Sx H/kzu' áurum áknks gzo ogy| k ut d. M á znk ru" gt j s ó j r á i us kmá| v i u| t zdky

a y vy 4Sx u P u x. Wákt zóó Vkvuxzy

fy y y H kxNWákt zóó Vkvuxzy. Zaurum

a uz 4OH

Owuxy vSx ul znk pú| xt gr TPS WS t k

fy y y ul TPS WS t k. Wákt zóó Vkvuxzy. Jxut zdkxy ul Trgt zWákt i k

U u4f RH

fy y y luxznk Nu| xt gry. á t' áut s kt zgrXu-áurum gt j Tngxs gi urum č áNu| xt gr ul Qurki | rgx Kxgvnóy gt j Quj krrá nčgt j Évvrkj Qó xuháurum gt j Fauzki nt urum á

d -u y 4nf H

Q- yz Sx H Mzkt gzaot gr Nu| xt gr ul Qkj ó á k gt j Fais kj ó grWákt i ky

a u u' ' Sx Hxut zdkxá Fauy ákt i k

Sx Hfau nks gza: gt j Tngxs gi urum =Svkt Ei i kyy

Sx H Pók Wákt i k=gt Mzkt gzaot gr Nu| xt gr

Sx H Nu| xt gr ul Qó xuháurum Vkykxi n Wá| dzk

Sx H E| yz á Nu| xt gr ul Fauzki nt urum gt j Faukt má kxat m

Sx H Mzkt gzaot gr Vkykxi n Nu| xt gr ul Tngxs gi urum



O y ay vy - z
bu uWY u uPxy

O x 4f gH
Qks hxxWui dz luxRk| xuyi dkt i k.YVE
Qks hxx Mzkt gzaıt gr Fxgd Vkykgn n S xrtg ę gzaıt .
Jxgt i k
Pdk Qks hxxMj ę Eı gj ks · ul Rk| xuyi dkt i ky.Mj ę
Pdk Qks hxxWui dz luxRk| xui nks ęz: Mj ę.Mj ę

Uu 4f H
Qks hxx.Wui dz ul Fairum ę grGnks ęz.Mj ę
Qks hxx.Mj ę Zourum ę gryui dz
Qks hxx.Eyyui ęzait ul Q ę xuhairum ęzul Mj ę
Qks hxx.Es kx ęgt Wui dz ul Q ę xuhairum .YVE

d -u y 4nf H
Qks hxxul Quxkgt Wui dz ul Xu-ę urum
I zn ę gr Gus s ęzkk s ks hxxul Rgzaıt gr P ę kxH ę kyk
Fairht q.Rk" HkmoMj ę
L kgrzn gt j W dkt i kl -v kzygt j v kkykt z kxyg m ę kyz ę
ErrMj ę Vgj ę .Rkvgr ę xum ęs s k0
I j ę x ę Gndk ul Mzkt gzaıt gr Nu| xt gr ul Q kj ę ę ky
gt j Fais kj ę grW dkt i ky
I j ę x ę E| yz ę Nu| xt gr ul Fairuzki nt urum gt j
Fairkt m kx ę m
Qks hxxul J ę ę n Ggt i kxyyui ęzait 0
Qks hxxul Es kx ęgt Eyyui ęzait ul Tngxs gi k| z ę gr
yui dz 0
Qks hxxul Tngxs gi k| z ę grWui dz ul Quxkgt
Qks hxxul Mzkt gzaıt gr Wui dz lux znk W ę j · ul
] kt uh ę z ę y0

gu y u4dgH
Es kx ęgt Wui dz luxQ ę xuhairum .YVE
Txuzkus ę yWui dz Mj ę.Mj ę
Xnk Eyyui ęzait ul Q ę xuhairum ęzul Mj ę.Mj ę

j y ' u 4gZH
Es kx ęgt Eyyui ęzait lux znk W ę j · ul P ę kxH ę kyk.
YVE

d v wu
O wyQ-u y P

d -u y nf . gt j Tgt j k · Z. ę RE Tur s kxyk= ę nk Q gyzkx
l -ki| zux ę G| xkt z V ę zkmky ę Fairuzki nt urum gt j
Fairuzki nt urum Zur| s k 40MFR ; 9: /; 5/: ; : 38/: : /
6.kFuuqMFR ; 9: /; 5/: ; : 38/: ; /3.42423yzkj ę zait 0

d -u y nf . Put k FE. ęgt g WOP. Ens gj J. gt j WignOR. gt j d -u y 4nf 0
ę nk Fairum . I t m kx ę mgt j Evvr ę zait ul GVMVIGEY

Wykz ę G| xkt z V ę zkmky ę Fairuzki nt urum gt j
Fairuzki nt urum Zur| s k 40MFR ; 9: /; 5/: ; : 38/: : /
6.kFuuqMFR ; 9: /; 5/: ; : 38/: ; /3.42423yzkj ę zait 0

O wy Y u

Eqz x W Wngxs g VO. Wngxs g W Vgyzumo W Jkh ę n FP.
O x fg. ę -unrkt ul yEXT s uj | rgzyvxyznrtgt j ę I 4
*TKI 4+ xkrkyk ę s gi xuvngnky znxu| m y| yzgd kj
vnuyvnuv rzaıt ul GHQ; gt j v5: QETOD Nu| xt gr ul
Pk| qui · zk Fairum *4242+ ę v kyy0

Wngxs g WOGngL . **O x fg.** ę -zgi kr| rgxEXT s kj ę zky
i gt i kx i kr s ę zait gt j ę gyaıt znxu| m ę i kgykj
k-v kyyaıt ul i · i ruu-· nkt gyk 4 ę Jxut z kxy ę
Tngxs gi urum *4242+ ę v kyy0

H| hk · VG. F ę zg/Ergs Rg · s ę gt j **Uu f** , *4242+ ę d /
372/s kj ę zky ę i kgyk ę m| i uyk | vzgk ę L M ę I ki zkj
i krry ę Nu| xt gr ul Q kj ę gr Zourum 0 Hki 460 j u ę
32 ę 2241 ę ' ę 8977

VgoQ. _| ' xgpOG gt j **Uu f** , *4242+ ę G| xkt z Xnkxyk| z ę y
gt j Txuvn · rgi z ę y gng ę yz GS ZM/3; ę Nu| xt gr ul Et z ę ę rgy
gt j Et zokzu' ę rgy ę v kyy

Vgh ę j xg ę ę ę Hngxs kt j ngx ę ęgt j **U v u -4 OZf** .
ę ain · j xunkt vxuj | i zait lxus l ę ę " gyk h · Gruy ę ę ę s
yzgd FS L 5 ę Vkt k" ghrk I t kxm . Zur/375. vv ę 58: /3599.
4242

Vgh ę j xg ę ę ę Mlgz. X ę ę gt j **U v u -4 OZf** .
ę nkxs uyzghrk. yur' kt z y| xgi zgt z xkj | i ę m grkt z gt j
i nkrzux xky ę zgt z grvng/s · rgyk lxus Fgi ę r| y yzgd
M X32: = E y| ę zghrk i gt j ę gzk kt ghrky ut k/yzkv
lxs kt z ę zait ul " gyk vuzgu lux nom h| zgt ur gt j
n · j xunkt vxuj | i zait ę [gyk gt j Fais gyy Zgru ę zait .
HS M ę 2 ę 2291 y 3486; /242/23239/33/38.4242

Q| qnkxkk W **U u 4 f R** , 0 ę xrtg uvnuyvnuv y Rkx k
Enkt zy · vky. Xu-ę ę . gt j Xkgs kt z ę ę Xu-ę ur ę 4242 Vkv
44 ę 4242-5229; : 60 j u ę 32 ę 3771424215229; : 60 TQ M =
5524; 358 ę TQ GM = TQ G9749; 24

Luygd QW H| zgz VO. Q| xgr ę ngx O. **U u 4 f R** , 0
ę ki kgykj gyi uxh ę gi ę h ę y · t znky ę xkyv ut y zu TQVK
ę znk v k/v| hkzgr lks grk xgz u' ę ę Vky Zkz W ę 4242 Evx
6353-ę 37/420 TQ M = 5449; ; 7; 0

Vgznuv EW V ę xkx E. **U u 4 f R** , 0 ę xuj | i zait gt j
ę s | t unkt ę ę ul J| hi y| h| t ę v xuzk ę xkj kyrt kj lxus
HI RZ kt ' kruvk vxuzk ę ę Evvr Q ę xuhairuzki nt ur ę 4242
Qgx 520 TQ M = 5445474; 0

Fgzg.R.Vggt j xgt .Z.[gj oMPgn" gr.E.H| zgz VO.Knuyn.
TG. **U u 4 f R** gt j Rgn Q ę Vt znkyy. i ngxi z k ę zait .
gt j gt z ę rgy s uj ę r kll ę gi · ul y| r lut gs ę k-gvvt kj kj
ę 4.5c-z ę urky ę Nu| xt gr ul L kzxui · i r ę Gnks ę z: . Ngt
4242.5: : : 73/340

Erngx" gr.WQ s gx E. Ngt . Q. W ę gt . NV ę m. O. Q s gx W
a uz 400 ę /zks ę gr · I ti uj kj Tk vz ę ky *Gl Ty+ ę k
vuzkt z ę r s kj ę zuy ul gh ę z ę yzky xkyv ut yk ę vrgt zy ę
Tn · yaurum gt j Qurki | rgx Fairum ul Trgt zy. 4242
S i z ę 48 * 32 + 423; /4255

Ngt . Q. Erngx" gr. WRngx T. X ę gx V. **a uz 400** ę H/
rgi zgz j kn · j xunkt gyk lxus x ę k ę ę ' ur' kj ę i ut l kx ę m
zurkxgt i k zu s | r z ę r gh ę z ę yzkyky h · s ę ę zgd ę m
i kr| rgx nus kuyzgy ę ę W dkt z ę ę Vkvuz. W ę vkv 32. 34: 57
*4242+

Rngx T. Q s gx E. Ngt . Q. Q s gx W **a uz 400**
ę kt us k" ę k gt gr y ę gt j z ęgt y x ę z vxul ę m ul TWDV
nkt klgs ę s ks hkxy ę S x · ę ygz ę g ę T Pu W S RI . TPu W S RI
37 * 9 + k 245856;

Fgzgn. V. Ngt . Q. Q s gx E. Rngx T. Q s gx W **a uz 400**
ę t 4- j kvkt j kt z m · u- ę rgyk Mvrg · y znk s gpx xurk ę
s kn · m · u- ę rj kzu- ę ę zait gt j ygr ę ę yzky zurkxgt i k
ę vrgt zy ę T Pu W S RI . TPu W S RI 37 * 7 + k 24556; 5

ęgt g. WOP. Put k. FE. Ens gj . J. WignOR. gt j d -u y 4nf 0
ę ui ę j u" t ul GVR ę ę y| v v kyyky QHE/QF/453 i kny
mxu" zn. ę j | i ky gvuvzuy. ę nd ę z s ę zait gt j
ę ' gyaıt 0 I] GPM Nu| xt gr 3; *Vkvzks hxx ę 3433/480
nzzvy ę I j u ę x m 132 ę 939; 1k-i r ę 242/45850

ęgt gr. PR. Wngxs g. OV. ęgrj t ę VO gt j d -u y 4nf 0
ę ykyys kt z ul Tn · zui nks ę gr. Et z ę - ę gt z gt j
Et z ę ę xuh ę r Ei z ę ę ky ul W ę k Qkj ę ę gr Trgt zy lxus
ęgy ę ę z ę z ul Rkvgr ę ę k ę ęgt Nu| xt gr ul Trgt z W dkt i ky.
Zur 33 Ru; . Vkv 42420

W ę m. RO. ę j g' . TR. Q s hngx EE. gt j d -u y 4nf 0
ę t z ę gt i kx vuzkt i · ul i uvv kx * M i us vrk-ky ul
zn ę yk ę ę g h ę - ut ky ę Nu| xt gr ul Mluxrt ę Fairuzki nks ę z: .
nzzvy ę I j u ę x m 132 ę 238 ę 1 ę ę u x m h ę ę 4242 ę 33356.33 N t k
42420

Gnnkzo HV. Gnnkzo E. WignOR. X ę gx W ę ęgt g. WOP. Pgs g.
Hgt j d -u y 4 nf 0 ę y g ę zkt | ę ky Tki q. gt
kt zus uvgnunkt ę | t m| y lxus Hg ę kkr ę m L ę grg · g =
l' gr| zait ul znk ę / ę ęgt z ę xur ę k ę z ę gt j gt z ę - ę gt z
vuzkt z ę r ul ę y s · i kr ę s k- zgi z ę QG Gus vrks kt z ę
Qkj ę ę k gt j Xnkxyv dky 424242- ę 7

Ens gj . J. W ę j kx E. Ku| x V. ęgt g. WOP. Exuxg. T. ęgrzng.
OTV gt j d -u y 4nf 0 ę nd ę zait ul Txuyzgzk Ggt i kx Gkr



g 6b 6	Ru y	g v yw 7h w	g y u y bu y - Oz u
3	36Q3Q4242	Faigi zó k roró y/hgykj znkxgvk zó gvvxugin zuigtikx	Hx0Ytj xz0R Hgy. QHOHW. JEQWJMT. JVVWG. YRH Pók Wókt i ky. Fgzrk Kxul t j . [E. YVE (Gndk Qkj ó grS II ó kxgt j Gngos gt ul Wókt zóó Ej ' gux- Fugxj . EWE ER zóóat . GE. YVE
4	29Q4Q4242	Rut /WKS T s zgzout y=hr xóó mznk rá ky h'kz' kkt i uj á mgt j t ut /i uj á m'k'nt y á i g t i k x	Hx0Wit gs Hngs qg Yt ó kxyó zyróó s Jxóh xm Hkvgzs kt z ul Xnuxgi ó W' xnkx- Hó g'out ul Ggt i kx Vkykxi n Fxkygi nkxVb0337. 9; 328 Jxóh xm Kkxs gt . 0

g xy Ow-y y y

a 6a u Yu *WEY 1F1A *T-44236127+Ixus Jgi | rz- ul Pók Wókt i kygt j Faizki nt urum gvvkxkj á znk' ó g' u i k k-gs á g'zout lux Hui zux ul Tnauyuvn- ut 39zn Jkhx| gx- 4242 lux znk znkyo. zarkj d -vruá mznk xurk ul H/rgi zgzk j kn-j xunkt gyk á ghazó zykyy zurkxgt i k ul vrgt zy' á g m- u-grgyk vgzni' g- | t j kx znk y| v'k' g'out ul Hx0Et gt j g Q| yzgo gt j nghkkt j ki r'xkj y| i i kyyl| r0

a 6f -u Z u R u *WEY 1F1A *T-44236123+Ixus Jgi | rz- ul Pók Wókt i kygt j Faizki nt urum gvvkxkj á znk' ó g' u i k k-gs á g'zout lux Hui zux ul Tnauyuvn- ut : zn Ntk 4242 lux znk znkyo. zarkj d'v' kyzongzout ul znk vn- yarumó grgt j vxus gi | ul y| tizout y ul s gs s g'ogt ykt kyktik s g'xqk vxuzá 52*WQ T52+ | t j kx znk y| v'k' g'out ul Hx0Vá quu Hk' o K| v'z g'gt j ngy h'kkt j ki r'xkj y| i i kyyl| r0

a 6fu Q-u x u R vy *WEY 1F1A *T-44236128+Ixus Jgi | rz- ul Pók Wókt i kygt j Faizki nt urum gvvkxkj á znk' ó g' u i k k-gs á g'zout lux Hui zux ul Tnauyuvn- ut ; zn Ntk 4242 lux znk znkyo. zarkj d'v' kyzongzout ul L' M Txuj | izout Et j Miki zout F- Tuzgyyó s Gngt kry Et j QóóuVRE/372 | t j kx znk y| v'k' g'out ul TxulOVá| Kgl x gt j nghkkt j ki r'xkj y| i i kyyl| r0

a 6fuy - Z u g-u u *WEY 1F1A *T-44236124+Ixus Jgi | rz- ul Pók Wókt i kygt j Faizki nt urum gvvkxkj á znk' ó g' u i k k-gs á g'zout lux Hui zux ul Tnauyuvn- ut 3; zn Ntk 4242 lux znk znkyo. zarkj d'v' kyzongzout mQki ngt ós y M' ur' kj á Rk| xuj knkt kxgzout Jumu" á mQóú i nut j xgr Gus v'ky/M'ndóóat | t j kx znk y| v'k' g'out ul Hx0Vg' o V'igt qgxEq| t j agt j nghkkt j ki r'xkj y| i i kyyl| r0

a 6U -ufu U *WEY 1F1A *T-4423612: Hxus Jgi | rz- ul Pók Wókt i kygt j Faizki nt urum gvvkxkj á znk' ó g' u i k k-gs á g'zout lux Hui zux ul Tnauyuvn- ut 3yzS i zuh'kx4242 lux znk znkyo. zarkj d'v' kyzongzout mVurk ul z- vk M'vur qkzj k

y- t zngyk. s kzn- rzgt ylkxgyk gt j y| ruzgt ylkxgyk á znk haurum ul i ux- t khgi z'xá k'gk | t j kx znk y| v'k' g'out ul Hx0 TxóóVg-kt ggt j nghkkt j ki r'xkj y| i i kyyl| r0

Z u fu6 Vki óókt z ul znk Rgzout gr Tuyzj ui zuxgr Jkmu" ynó *RTHJ+ Wókt i k gt j l t má k'xá m Vkykxi n Fugxj *WVF+ Ku' kx s kt z ul Mj á g. lux znk vxupki z d'v' kyzongzout mznk xurk ul á y| rá xki kvzux yont g'rá m á t k| xuvuzki zout g'ogt yz v'ur- *U- j g'uxj kxy *Qkt zux=Vg' o Eq| t j á g

fuy - g-u u6 d'v'nt g'rá m s ki ngt ós y á' ur' kj á t k| xuj knkt kxgzout lumu" á m s óú i nut j xgr i us v'rk- M á n'óóat 0 Tn0H0 g" g'xj j gzk=3: 18142420 Qkt zux=Vg' o Eq| t j á g| xkt z- " uxqá mgy g vuyzj ui zuxgr l'kmu" á znk rgh ul Hx0 Kó r'og Fkxurá. Mlyzá z'k ul Kkt kzó y gt j Hk' kruvs kt z ul Vkt t ky. Yt ó kxyó- ul Vkt t ky. Vkt t ky Gkj k-. Jxgt i k0

g-u ug4 Ogrxg L. Eq| t j óW*4242-0Tuyz'k Txkykt zgzout ut d -zgi kn| r'g EXT i ut zóh| zky zu" g'xj y á i x'kykj z| s ul x vxuró kxgzout gt j s kzyzgyo. : zn M'z'kxt g'zout gr X'gt yrgzout gr Ggt i kx Vkykxi n Gut l'kxkt i k. Fgt g'gy L á j | Yt ó kxyó. : Z'xgt gyó Vki óókt z ul znk Fkyzvg'kxg" g'xj 0

R-u u b4 gu y O4 fu - y Og gt j K| v'z g VH. d'Hyont á mul g V'uxz Tk'vzj k Zgi á k Engá yz Hkt n| k Zó y g'z k/Gumuv| ó s ut á s k'x'á m'x'kt j y á L kgrzn gt j H'og'kyk Vkykxi n' XL HV/4242 uxngt ókj h- Es á: Yt ó kxyó. : K| x| m'gs . 42zn S i zuh'kx42420

a x6Sv u- Z-u 40 u -u Yu 4Sy - u Ru gt j Kuhá gzn Vg'og'muvgrgt. Vkyvut yk y| x'gi k yzgzozó gr uvzs ógzout ul hain-j xunkt vxuj | izout l'xus i x'j k m- i kxur0 M'z'kxt g'zout gr Gut l'kxkt i k ut M'it u' g'zout y á Faizki nt urum gt j Pók Wókt i ky nuyz'k h- znk Hkvgzs kt z ul Faizki nt urum *M'PW- Hkmo'xki nt urumó gr Yt ó kxyó: *HXY+nkrj h'kz" kkt 3: /42zn Hki ks h'kx42420

O y P-u uw-u u gt j Kuhá gzn Vg'og'muvgrgt .

M' s uhóó g'zout ul xkius há gt z Tó n'og vgyzuxy lux vxuj | izout ul X'ks kzyi á t gh'gá g'rgi i gyk0 M'z'kxt g'zout gr Gut l'kxkt i k / M'PW- znk HFX HXY. nkrj h'kz" kkt 3: /42zn Hki ks h'kx42420

O u -u Yu 4Sy - u Ru 4a x6Sv u- Z-u gt j Kuhá gzn Vg'og'muvgrgt. Fain- j xunkt vxuj | izout l'xus Gruyz'ó ó s | yá m i x'j k m- i kxur gy g y| hyz'gzk. M'z'kxt g'zout gr Gut l'kxkt i k M'PW- znk HFX HXY. nkrj h'kz" kkt 3: /42zn Hki ks h'kx42420

f y P - g'zkt j kj á Nk ; zn Ett | gr Gut l'kxkt i k ul znk M' z'kxt g'zout gr Gnks á gr Faurum- yui ókz- . M'FW242Z/MXYEP ut Éj j x'yyá mznkxgvk| zó i ngrkt nky zunkznkx" á ni nks ó g'rhaurum čnkrj h'kz" kkt Ru' ks h'kx 33/35.42420

f y P - g'zkt j kj znk Rg'z' xgr Txuj | iz Wókt i ky " khá g'x yk'xky h- É s k'xó gt W'ii ókz- ul Tngs gi umt uy- č

*EWT-ut Si zuh'kx: gt j 44.42420

f y P - 40 yy - du y 4gu U 4U -ufu U 4 TxóóVg-kt g gt j R'og'k'kzn Eng'x" gr=Zóá gr vuyz'k vxkykt zgzout ut d'vurk ul z- vk M'vur qkzj k y- t zngyky á yzgzout g'x g'rm'k'ngzky ul Q- i uhgi z'x'ó s s g'xá | s á á QFS " uxq'ynuv=Gnks ó gr Faurum 4242/ Zóá grč nkrj h'kz" kkt V'kvzks h'kx5/7.42420

f y P - 4U -ufu U 40 yy - du y 4 V'gs á K'áo Qut á g Q| s g'xó TxóóVg-kt g. R'og'k'kzn Eng'x" gr=Tuyz'k vxkykt zgzout ut d -vruá mznk vn- yarumó grxurk ul X- vk M'vur qkzj k y- t zngyky á Q- i uhgi z'x'ó s s g'xá | s á d'v'j á g l'QFS y- s vuyó s čut á Q- i uhgi z'x'og' L k'z'xunkt ká- gt j nuyz zoy| k z'xuv'gs R'W'V'K' I F. Rk" Hkmo M'j á g nkrj h'kz" kkt Jkhx| g'x 33/37.42420





**Faculty of Mathematics &
Computer Science**

Department of Computer Science

Faculty of Mathematics and Computer Science

Xnk Hkvgrz kt zul Gus v| zkwWdtk.k.kyzghrynki h- znk Yt ókxyæ á 4232. g'ut kul znk s uyz' d'xgt zj kvgrz kt zy ul znk Jgi| rz- ul Qgznks g'z'ó ygt j Gus v| zkwWdtk.k0Xnk j kvgrz kt z'á az'z'k'j az'z'k'gi ná mgi zó az'k'yznu| m'g'vuyz/ mgj| gzk vxumgs s k á Gus v| zkwWdtk.k á 4232. gt j rgz'k'x az'z'z'k'j TnH vxumgs s k á Gus v| zkwWdtk.k á 42350 Jux kgi n vxumgs s k. znk j kvgrz kt z lumu" y g | t'w| k| v/zu/j gzk i| x'ó| r| s " an znk g's zu kw| a' znk yz| j kt zy " an znkuz'z'ó gr gt j gt gr- zó gr yq'ory gy " krr gy znuxu| m'qt u" rkj nk gt j k-vk'z'zyk á znk rgz'k'yz'z'z'k'z/ul/ znk g'z' zki nt'w| ky á M'yu zngz znk- iul rj " uxq i us vkzkt z- á j ó kxyk g'k'gy0

Okkvá má s á j zngz znk | t'ó kxyæ- j kvgrz kt zy ng' k znk'x u" t' xkyvut yd'æ- zu h'xá m u| z yq'orkj gt j i us vkzkt z vxulky'out gry zu lgi k m'uhgr i ngrkt nky " an znk t'k" á yomzy ul vxuhrks /yur' á m gh'æ'z'ky. znk Hkvgrz kt z ul Gus v| zkwWdtk.k. gj s az'á m yz| j kt zy lxus gr VEEVG t'g'z'out y. g'x'kt j k'xá m y| in gt á v'uxzgt z xkyvut yd'æ- h- vxuj | i á m Gus v| zkwWdtk.k vxulky'out gry i us vkzkt z kt ul m zu | r'or znk á j | yz'æ'gr gt j xky'g'xi n t'kkj yul znk VEEVG t'g'z'out y0Xnk s g'ya'ut ul vxuj | i á m gh'rk gt j i us vkzkt z Gus v| zkwWdtk.k vxulky'out gry á znk j kvgrz kt z g' h'k'á m gi nd' k' j j | k zu znk á' ur' ks kt z ul n'omr- j k'j ó g'z'k'j gt j i us vkzkt z lgi| rz- s ks h'k'xy0 [k g'x'k i ut z'á | u| yr- vxum'k'yy'á m- k'g'x glz'k'x- k'g'x'gy " k g'x'k yá i k'x'k- i us s az'k'j zu" g'x'j yz'nk m'gr ul vxus uz'á m t'uz ut r- znk j kvgrz kt z h| z g'ryu znk á yz'á z'out gy g " nurk0S | x yz| j kt zy ng' k h'k'kt gh'rk zu s g'q'k g s g'q' lux z'ns yk' ky h- znk'x yk' á ky ul l'k'k'j á j ó l'k'k'kt z'v'g'z'yl znk " uxj ut h'k'ng'rl ul z'nk'ot g'z'out 0

Xu yz'kt m'z'kt xky'g'xi n gi zó az'ky ul znk | t'ó kxyæ. znk j kvgrz kt z ng' y á yz'á z'k'j Hui zux ul Tn'auyuvn- vxumgs s k " an gt k'g'x- k-æ uvz'out " an Q'á n'á H'k'm'k'k'0 Xu i x'g'z'k' gt g'v'v'x'v'x'g'z'k k-vk'x'á kt z'gr yk'z| v lux znk vxuvuyk'j j ui zux'g' xky'g'xi n vxumgs s k gt j znk k-æ'z'á m s g'z'k'xy'z'z'j j kt zy kt z'x'á má zu z'nk'x z'nk'y'gy i us v'ut kt z znk j kvgrz kt z ng' luxs | rgz'k'j g i us v'x'k'nt yó k rgh'ux'g'z'ux v'rgt " an ut k n'kt k'x'g'r/v| xvuyk i us v| z'á m

rgh'ux'g'z'ux gt j yk' kt yvki æ'g'r'k'j rgh'ux'g'z'ux'ky. á i r| j á m L'g'x' " g'x'k (H'æ'æ'gr Wyzks y Pgh. Ej 'gt i k'j Et gr z'ó y (G h'k'x Wki | x'æ- Pgh. V'k'g'r/X'æ k Wyzks y Pgh. Q'gi ná k P'k'g'x' á m Pgh. [ó'k'r'k'yy R'k'z' uxqy (Q'uh'ok Gus v| z'á m Pgh.M'z'k'r'r'ok't z Wyzks y (X'k-z Et gr z'ó y Pgh. gt j Gus v| z'g'z'out gr M'z'k'r'r'ok't i k Pgh0

V'á j kt z'á'g'j s az'k'j gt j i ul t'z'æ' " g'k' h'k'g'q| v

bu y zd ' u yH'6g'v6Q y gwy wy

Pu w-H'9?9







Elmgt g'z'gt	5	Q'g'j ó ky	2
Fgt mgj kyn	5	R'k'v'gr	6
Fn zgt	4	T'g'q'g'z'gt	5
Mj æg	35	V'k'o'P'gt qg	2
S znkxy	2		

bu y zd ' u yH-1RQ y gwy wy

Pu w-H'9?9

Elmgt g'z'gt	4	Q'g'j ó ky	2
Fgt mgj kyn	6	R'k'v'gr	7
Fn zgt	2	T'g'q'g'z'gt	2
Mj æg	44	V'k'o'P'gt qg	2
S znkxy	2		

Ry u zTuw a y vy

	bu y	d-R Ozz u . nyu	Ry ' u	O yu zg ywu u 7W y y
	T'x'g't gh 00 Q n xó	M'j ægt M'yz'á z'k' ul X'ki nt urum *FLY+ M'j æg. 4227	T'x'ul'k'yy'ux (H'k'gt	Gus v z'g'z'out gr M'z'k'r'r'ok't i k. W'ki æ'gr- J ... Wyzks y. l' ur z'out g'x- E'm'ux'æ'ns y. V'k'g'r/X'æ k Wyzks y
	Q ngs s gj Eh rg'yn	M'j ægt M'yz'á z'k' ul X'ki nt urum H'k'mo M'j æg. 4229	Eyyui æ'g'z'k T'x'ul'k'yy'ux	H'g'z'g Et gr- z'ó ygt j Q'á á m Q'gi ná k P'k'g'x' á m W'li æ'gr Gus v z'á m W'kt z'æ kt z Et gr- y'gy. H'g'z'g/H'x'ó kt G- h'k'xyki x'æ-
	V'k'yns g V'g'yz'umó *t'kk Onks i ngt j gt æ	M'j ægt M'yz'á z'k' ul X'ki nt urum H'k'mo M'j æg. 422:	Eyy'g'z'gt z T'x'ul'k'yy'ux	Q'gi ná k P'k'g'x' á m S'v'z'æ æ'g'z'out . W'v'v'ux z'k' zux Q'gi ná k y. Gus v z'k'x Z'g'out
	Es æ Fgt k'x'k'k	R'g'z'out gr X'yd' m'L g Yt ó kxyæ . X'g'ó gt . M'j æg. 422;	Eyy'g'z'gt z T'x'ul'k'yy'ux	H'g'z'á h z'k'j Wyzks y. Gru j Gus v z'á m R'k'z' uxq W'ki x'æ . M'z'k'x' k'z' ul X'nd' ny. I j nk Gus v z'á m
	F'q'u- Gngt j Gngz'k'x'k'k	X'k- v x'Yt ó kxyæ . Eyy'gs . M'j æg. 4236	Eyy'g'z'gt z T'x'ul'k'yy'ux gt j H'W'k' M'ly'v'ok Jgi rz	S'v'z'ó grt k'z' uxqy. Uu W'g' " g'x'k v'x'uzi ury. S'v'z'æ æ'g'z'out . Vu z'á m
	W'ngi n'ol'W'ng's g	N'g' " gng'x'gr R'kn Yt ó kxyæ . R'k" H'k'mo M'j æg. 4229	Eyy'g'z'gt z T'x'ul'k'yy'ux	M'z'k'x' k'z' ul X'nd' ny *M'X+ Fru i q'í ngá . T'k'l'uxs gt i k s uj k'rá mul i us s t'ó g'z'out t'k'z' uxqy

O u x 7J y ywu f yw ' a - 4d u uv ZH

a y vy 4 Sx u P u x4 Evv'rd'k'j W'á l z Gus v| z'á m l ryk' d'x'W'á t i k0

a y vy 4 Sx u P u x4 l t m'á k'k'x'á m Evv'ró g'z'out y ul E'x'z'ó æ'gr M'z'k'r'r'ok't i k. l ryk' d'x'W'á t i k0

U y Sx 4 W'ki æ'gr g'yl k ut l s k'm'á m M'yl ky gt j Evv'ró g'z'out y ul X- v'k/4 J| ... W'k'z' y gt j Wyzks y. l t m'á k'k'x'á m Evv'ró g'z'out y ul g'z'z'ó æ'gr á z'k'r'r'ok't i k *4242+ l ryk' d'x'W'á t i k0

Q-u 4 W'ki æ'gr yk'yy'out ut á'x'k't j ygt j j k' kruvs kt zy ut X- v'k/4 J| ... W'k'z' ygt j Wyzks y. J| ... /M' l 4242 *M' l [GGM 4242+K'rg'ymu" .Y00

Q-u 4 W'ki æ'gr yk'yy'out ut "M'z' á'out g'z'ó J| ... W'k'z' á

l s k'm'á m Hus g'á y. J| ... /M' l 4242 *M' l [GGM4242+ K'rg'ymu" .Y00

c ' u y 4 W'ki æ'gr yk'yy'out ut "Gus v| z'g'z'out gr M'z'k'r'r'ok't i k g'v'v'x'ugi nky lux M'j | yzæ 6Q gz znk G'x'uy j g'í ó'rá g'x (Evv'ró g'z'out y'. M'G'R'R 4242. GHVW *M' l [GGM 4242+K'rg'ymu" .Y00

Q'ks h'k'x M'z'k'x' g'z'out gr Ej ' g'ux- Fug'j . M'z'k'x' g'z'out gr Gut l'k'á t i k ut Gus v| z'á m Ej ' gt i ks kt zy *M'G'E 4242+ Hng'q'g. Fgt mgj kyn

Ov u -4a 6

Q'ks h'k'x= Fug'j ul W'á j d'ky *Gus v| z'k'x W'á t i k gt j Evv'ró g'z'out y+ V'á 0 Eru- y'ó y'ç Gurr'knk *E| zut us u| y+ N'gh'grv| x0

Eyyui æ'g'z'k I j æ'ux= Nu| x'gr ul O'á m W'á j Yt ó kxyæ / Gus v| z'k'x'gt j M'luxs g'z'out W'á t i k y. l ryk' d'x'0

f u ' 4f6

W yx g yu y lux ynuxz zks lgi| rz gj'gtiks ktz i u| xyky ut "Svz s o gzaıt Xnkux. Qkznuj y gt j Evvró gzaıt y" E| m| yz 3: . 4242 i ut j | i zkj h- **W** Vuuxqkk *Zoz| gr+

gy w 5w-u lux Xki nt ó gr Wkyaut Mzkt gzaıt gr Gut lkkı t i k ut Wılzi us v| zı mluxTxuhrks Wır' d m4242. nuyzkj h- **W** Mj uxk *Zoz| gr+

U y Sx lux Wki ógr gy| k d Q| rz s kj óg Xuury gt j Evvró gzaıt y. Wkv 42420

Q-u y yy4Q6

MI l Wkt aıxQks hkx0

Ej p t i zTxulkyuxgzMj xgvxyznng Myzı z k ul Mluxs gzaıt Xki nt urum Hkmó **W** H+Rk" Hkmó

Vk' d" kj znk huux vıuvuygr kt zırkj ósvzó gr W' ai nı m Xki nt urum = W' ai n Jghxó gzaıt gt j Evvró gzaıt d Rkz" uxqy lıus N S L R [M] _ (V S R W P X H . 42420

g-u u4g6

Wkyaut Gu/i ngox lux Xki nt ó gr ykyaut ; gz MI l Mzkt gzaıt gr Gut lkkı t i k ut Gus v| zı gzaıt gr Tklıus gt i k l' gr| gzaıt . Mj óg . 42420

U u u xTy - w zy yx y vy z -yTuw

Q-u y yy4PQ4 Hkyont ul s | rzıuhıki zó ky krgyzó /' oz| gr uvzó gr t k z' uxqy lux nom/yvkkj i us s | t ó gzaıt . HWK Mlyok. 4239/4244. 57 Pqony

Q-u y yy4PQ gt j S qo l 0 Wıki zı s j klxgms kt zı gzaıt s gt gnks kt z d krgyzó uvzó gr t k z' uxqy | yd ms gi nı k rkgt d m Mj u/Nıvgt i urghıxgzó k vxııki z HWK/NıTW *O uzu Yt ó kxyıı . Nıvgt yı k+4242 zu 4244. 8.82.222 rgony *Mj ógt Vı k+ Nı _ 4.222.222- kt *Nıvgt Vı k+0

Sx u 7f y y ' u x f zy yy ' O y

a - 4d u uvZ6H

Sx u P u x a y vy 4 Evvrıkj Wılz Gus v| zı m l ryk' dxW d t i k 0

Sx u P u x a y vy 4 l t nı k k x d m Evvró gzaıt y ul Exzdó ógr Mzkrıkt i k . l ryk' dxW d t i k 0

U y Sx 4 Wki ógr gy| k ut s k nı m Mj ky gt j

Evvró gzaıt y ul X- vk/4 J| ... Wky gt j Wyzks y. l t nı k k x d m Evvró gzaıt y ul g x z d ó ógr d zkrıkt i k *4242+

f y y y H Xıgt ygi zııt y ut Exı nıki zı xk gt j Guj k Svz s o gzaıt . EGQ

f y y y H M l Xıgt ygi zııt y ut J| ... Wyzks y. M l

f y y y H M l Xıgt ygi zııt y ut Wılz' g x l t nı k k x d m M l

f y y y H M l Xıgt ygi zııt y ut G h k x t k z ó y. M l

f y y y H M l E i i k y y. M l

f y y y H M l Gut y | s k x l r k i zııt ó y Q g n g . d k. M l

f y y y H V k r g h a z . l t nı k k x d m gt j Wyzks y Wıj k z . l ryk' dxW d t i k

f y y y H Gus v| zııygt j Mj | y z ógr l t nı k k x d m l ryk' dxW d t i k

f y y y H l - v k z Wyzks y " a n Evvró gzaıt y. l ryk' dxW d t i k

f y y y H Nı | x t g r u l G r k g t k x T x u j | i zııt . l ryk' dxW d t i k

f y y y H Evvrıkj WılzGus v| zı m l ryk' dxW d t i k

f y y y H Gus v| zııy d Mj | y z . l ryk' dxW d t i k

f y y y H M z k x t g z aıt g r Nı | x t g r u l J | ... W y z k s y . W x d n k x

f y y y H J | ... S v z s o g z aıt g t j H k i g aıt Q g g d m W x d n k x

f y y y H Q k z g n k | x g z ó y . W x d n k x

f y y y H Txui k k j d n y ul z n k R g z aıt g r E i g j k s . ul W d t i k y . M j ó W k i z aıt E = n . y ó g r W d t i k y . W x d n k x

f y y y H ó k r k y y T k x y u t g r G u s s | t ó g z aıt y . W x d n k x

f y y y H Gus v r k - (M z k r r n k t z W y z k s y . W x d n k x

f y y y H Nı | x t g r u l z n k S v k x g z aıt g r V k y g x i n W i i d z . W x d n k x

f y y y H W d t z u s k z ó y . W x d n k x

f y y y H | ... M l u x s g z aıt g t j l t nı k k x d m X g r u x g t j J x g t i g

Ov u -4a 6

O w u y Sx H Nı | x t g r u l O d m Wıj j Yt ó kxyıı : / Gus v| zııygt j Mluxs gzaıt W d t i k y . l ryk' dx0

hdQ a y vy H W B Q M z k x t g z aıt g r G u t l k x k t i k u t H g z g Q d d m W H Q +

hdQ a y vy H M z k x t g z aıt g r Nı d z G u t l k x k t i k u t E x z d ó ógr M z k r r n k t i k * M G E M

hdQ a y vy H M l 1 [M G 1 E G Q M z k x t g z aıt g r G u t l k x k t i k u t [k h M z k r r n k t i k * [M

hdQ a y vy H E G Q M z k x t g z aıt g r G u t l k x k t i k u t M l u x s g z aıt g t j O t u " r k j n k Q g t g n k s k t z * G M Q +

hdQ a y vy H M z k x t g z aıt g r Nı d z G u t l k x k t i k u t O t u " r k j n k H o j i u ' k x . O t u " r k j n k l t nı k k x d m g t j O t u " r k j n k Q g t g n k s k t z * O Q M +

hdQ a y vy H M z k x t g z aıt g r G u t l k x k t i k u t O t u " r k j n k H o j i u ' k x g t j M l u x s g z aıt V k z d k ' g r * O H M +

hdQ a y vy H M z k x t g z aıt g r G u t l k x k t i k u t H g z g W d t i k . X k i n t u r u m g t j E v v r ó g z aıt y * H E X E +

hdQ a y vy H E y a g t G u t l k x k t i k u t M z k r r n k t z M l u x s g z aıt g t j H g z g h y k W y z k s y * E G M W +

hdQ a y vy H M z k x t g z aıt g r G u t l k x k t i k u t G u s v | z g z aıt g r G u r k i z ó k M z k r r n k t i k * M G G M

f y y y H M l Xıgt ygi zııt y ut O t u " r k j n k g t j H g z g l t nı k k x d m M l

f y y y H M l Xıgt ygi zııt y ut G u s v | z g z aıt g r F aı r u m (F aı d l u x s g z ó y . M l

f y y y H M l Xıgt ygi zııt y ut M l u x s g z aıt J u x k t y ó y (V k i | x z . M l

f y y y H M l Xıgt ygi zııt y ut W k x ' ó k y G u s v | z d m M l

f y y y H M l E i i k y y . M l

f y y y H E G Q G u s v | z d m W | x k . E G Q

f y y y H W i ó g r R k z " u x q t g r y ó g t j Q d d m W x d n k x

f y y y H l u x s g z aıt W d t i k y . l ryk' dx

f y y y H Nı | x t g r u l F aı s k j ó g r M l u x s g z ó y . l ryk' dx

f y y y H | k h M z k r r n k t i k (E n k t z W y z k s y E t M z k x t g z aıt g r Nı | x t g r . M W T x k y y . R k z n k x g t j y

f u ' 4f6

hdQ y vy lux Wıi Txu W 4 2 4 2 g t j M G M W 4 2 4 2

gy w-u lux Wıi Txu W 4 2 4 2

Nı | x t g r V k ' d " d m M l z g t y g i z aıt y u t t k | x g r t k z " u x q y . M l u x s g z aıt W d t i k y . R k | x g r R k z " u x q y . R k | x u i u s v | z d m R k | x g r T x u i k y d m P k z k x y . E x z d ó ógr M z k r r n k t i k V k ' d " . R k | x g r i u s v | z d m g t j ó y g v v r ó g z aıt y . Nı | x t g r u l s g i n d k r k g t d m g t j i . h k x t k z ó y . E v v r d k j d z k r r n k t i k . W x d n k x 0

Q zy y wyfy y H W i T x u W 4 2 4 2 g t j M G M W 4 2 4 2

Pu y yy4O6

Y u fy y ' H M l E i i k y y

Q-u y yy4PQ6

O w u y Sx H M l E i i k y y Nı | x t g r * J u s H k i 4 2 3 : z u X o r j g z k +

hdQ a y vy H M l L T W 4 2 4 2 . M l M G 4 2 4 2 . g t j M l K P S F I G S Q 4 2 4 2

Y u fy y ' H M l 1 E G Q Xıgt ygi zııt y ut R k z " u x q d m M l Xıgt ygi zııt y ut G u s s | t ó g z aıt y . M l 1 S V E Nı | x t g r u l P o m z " g ' k X k i n t u r u m . M l 1 S V E Nı | x t g r u l S v z ó g r G u s s | t ó g z aıt g t j R k z " u x q d m M l G u s s | t ó g z aıt y P k z k x y . M l E i i k y y . G u s v | z k x R k z " u x q y / l ryk' dx S v z ó g r J d i k X k i n t u r u m / l ryk' dx S v z ó g r W a i n d m g t j R k z " u x q d m l ryk' dx

Q zy y wyfy y ' H M l M G 4 2 4 2 . M l L T W 4 2 4 2 . M l K P S F I G S Q 4 2 4 2 0

g6g-u u

hdQ a y vy H M z k x t g z aıt g r i t l k x k t i k u t G h k x W k i | x z d l s k nı m H o n z g r l x g * M G H I 4 2 4 2 + g W x d n k x G G M W k x d y g z K O P F g g p M y z a | z k u l X k i n t u r u m g t j Q g t g n k s k t z K x O R u ó g . K g | z g s F | j j n R g n g x H k m d R G V . M j óg . u t ; g t j 3 2 S i z 4 2 4 2

hdQ a y vy H 4 t j M z k x t g z aıt g r G u t l k x k t i k u t Wılz G u s v | z d m g t j ó y l t nı k k x d m E v v r ó g z aıt y . M Wılz i u s v 4 2 4 2 . G n g x | y g z G n g t n g . M j óg

Y u fy y ' H M l W y z k s y Nı | x t g r . M l R k z " u x q d m P k z k x y . W x d n k x Wıj n g t g T | h r o n k j h . z n k M j ógt E i g j k s . u l W d t i k y

Q zy y wyfy y ' H M G I H I 4 2 4 2 g t j M Wılz i u s v 4 2 4 2 0

O y a y vy - z bu u 7W y u u P x y

a - 4d u uvZ6

gy a y vy / M y z a | z k u l l r k i z ó g r g t j l r k i z aıt ó y l t nı k k x y * M l + Y W E

gy a y vy / M l G u s v | z g z aıt g r M z k r r n k t i k * G M W i i d z . Y W E

gy a y vy / M l W y z k s y . Q g t g t j G h k x t k z ó y * V Q G + W i i d z . Y W E

gy a y vy / M l G u s v | z k x W i i d z . Y W E

a y vy / l | x u v k g t W i i d z . l u x J | ... P u m ó g t j E v v r ó g z aıt y * l Y W P E X + W g d

Ov u -4a 6

gy a y vy HM Myzaj zk ul l rki záo gr gt j l rki zaut ó y l t má kky *MI I +YVE

gy a y vy HE yyui gzaút lux Gus v | zám Q gi ná kx *EGQ+YVE

gy a y vy H Gus v | zcxWú i dkz ul Mj g *GWM Mj g

[**zy a y vy HM** j g t Wú i dkz lux Xki nt ó gr l j | i gzaút *MXI +Mj g

[**zy a y vy HM** j g t Wú i dkz Gut mky y Eyyui gzaút *MGE + Mj g

[**zy a y vy H** Myzaj zaut ul l rki zaut ó y gt j Xkrki us s | t ó gzaút l t má kky *MXI +Mj g 0

f u ' 4f 6

a y vy ul M I I *; 68348; 7+

Pu y yy406

a y vy ul M I I *; 4; 23984+

a y vy ul EGQ *25; 425; +

Q-u y yy406

gy a y vy ul M I I *; 53488; 7+ gt j M I I Gus s | t ó gzaút y Wú i dkz 0

[**zy a y vy** *E44; 374+ul Xnk Myzaj zaut ul l rki zaut ó y gt j Xkrki us s | t ó gzaút l t má kky *MXI +Mj g 0

g-u u4g6

a y vy ul M I I *; 42463; ; +

a y vy ul EGQ *65; 4855+

d v wu

P 0 yu - 1

Q-u y yy406 gt j S qo l 0 l rgyzó S v zó gr Rkz" uxqá m Xki nt urumky= J | t j gs kt zgry. Hkyant. Gut zaur. gt j Qgt grks kt z0GVG Txky. Xg- rux gt j Jxgt i q Xxv | v. Fui g Vgzut. Y0VE. 4242? MFR/35=; 9; /335: 83393; . MFR/32= 335: 83393; 0

Sx yxj y

Ggyzaru. S0a - **4d u uv Z6** Qkrá . T. gt j T | rqqá kt . T0 42420 l s kxmá mly | ky gt j Evvró gzaút y ul X vk/4 J | ... Wkzy gt j Wyzks y. l t má kxá m Evvró gzaút y ul gxzáo g r á zkrnk t i k. ZurQ 2=3257; 80

O wyQ-u y P

Vg | t ó g x E0gt j a - **4d u uv Z6** 42420Q | r zó Vuhuz Gugraút Juxs gzaút gt j Xgyq Emui gzaút Yyá m M l s oxgt z Fgykj E j gv zó k Kkt k zó Ermuxans y0 M l Gus v | zgzaut gr Mzkrnk t i k á l s kxmá m Xki nt urumky lux l t má kxá m Evvró gzaút y *v0427/447-0W xá n kx Gngs 0

O wy Y u

a - 4 d u uv Z6 Txgngt z 00 K | v z g. gt j Nkx Q0 Qkt j kr0 "Tkxyut Juuzv xá z ul | t i k x z g á z / hgykj G [[s uj krluxvu" kxuvzs o g z a ú t á n g t j n k r j j k' ó k y 0 M I I Xxgt ygi zaut yut J | ... Wyzks y4: . t u 0 5 *4242=77: /78: 0

a - 4 d u uv Z6 gt j Wjáh 00 Fy" gy0 "Fg ky g t uvzs o g z a ú t g m u x a n s l u x s | r z ó u h p k i z ó k y i n k j | r á m u l z s k g t j v x k i k j k t i k i u t y z g á k j z g y a y á n k z x u n k t k u l y s | r z ó u i k y y u x y z k s y 0 E v v r d k j Wú l z G u s v | z á m ; 4 *4242=3284960

a - 4 d u uv Z6 gt j Txgngt z 00 K | v z g 0 "E t u' k r y u r | z a u t g v v x u g i n l u x s | r z a u h p k i z ó k r á m | g z á u v z s o g z a u t v x u h r k s y h g y k j u t z n k 4 / z | v r k l | ... r á m | g z á u t x k v x k y k t z g z a u t s u j k r 0 E v v r d k j Wú l z G u s v | z á m ; 7 *4242=3285; 70

W | q r g . E s á 00 V g n | r R g z n . **d u uv Z6a** - 4gt j UQ Hgt g n Pungt 0 "l t k x m k l l ó d k t z s | r z ó u h p k i z ó k y i n k j | r á m u l z g y a y " á n á z k x' g r z v k / 4 l | ... z s á m i u t y z g á z y á g t M j | y z x 6 Q k i u y y z k s 0 l t má k x á m E v v r ó g z a u t y u l E x z á o g r M z k r n k t i k : 9 *4242=3254790

W | q r g . E s á 00 Q k m g _ g j g' . W g t j k k v Q | s g x g t j **d u uv Z6a** - 6 "Zkxgi á n g t j r á m g t j á y z t i k x k j | i z a u t á h o n j g z g | y á m á z k x' g r z v k / 4 l | ... y k z y 0 l t má k x á m E v v r ó g z a u t y u l E x z á o g r M z k r n k t i k : : *4242=3255370

E y n x j l . ' | h g á Q | q | r P g z g V u . . **d u uv Z6a** - 4gt j U0 Q0 Hgt g n Pungt 0 "M z k x' g r z v k / 4 l | ... r u m á y z k s h g y k j y s a g x a k' g r | g z a u t l u x á g n k y z k n g t u m g v n . 0 L k r á u t 8 . t u 0 7 *4242=k259930

W | q r g . E s á 00 W | s á 00 F g t y n g r . X g t o g W k z n . E v g x t g F g y | . V u h k x z N u n t . g t j **d u uv Z6a** - 6 "E h d r a u s k z á o u' k x' á " u l z n k l d r j u l z v k / 4 l | ... y k z y g t j y z k s y á g i | y y a u t l u x | s á 0 M I I G u s v | z g z a u t g r M z k r n k t i k Q g n g . á k 37 . t u 0 3 *4242= ; / ; : 0

W | q r g . E s á 00 **d u uv Z6a** - 4gt j E p z n E h x g n g s 0' E h d r a u s k z á o g t g r y o g t j i | z z á m k j n k u' k x' á " u t l | ... z k i n t á v | k y á F o n H g z g 0 l t má k x á m E v v r ó g z a u t y u l

Exzáo g r Mzkrnk t i k ; 4 *4242=3258470

' | x a g . K | y z g' u . E s á 00 W | q r g . N u y E 0 T á u . N u y Q 0 Q k x o n . Z g r k x g P u h u y / S y g t j t . g t j **d u uv Z6a** - 6 "E h d r a u s k z á o u' k x' á " u l z n k N u | x t g r u l R k z " u x q g t j G u s v | z k x E v v r ó g z a u t y h k z " k k t 3 ; ; 9 g t j 423 ; 0 N u | x t g r u l R k z " u x q g t j G u s v | z k x E v v r ó g z a u t y 387 *4242= 3248 ; 70

N g t s g q g . g . Q g t ' k t j x g . E s á 00 W | q r g . g t j **d u uv Z6a** - 6 "E t k' g r | g z a u t u l z n k i u t u s ó y k y k g x i n á M j g j | x á m r g y z n x k k j k i g j k y *3 ; ; / 423 ; - 0 G S P P R I X N u | x t g r u l W d k t z u s k z á o y g t j M l u x s g z a u t Q g t g n r k s k t z 36 . t u 0 3 *4242= 5 / 33 : 0

W k z n . X g t o g . g t j **d u uv Z6a** - 6 "X v k / 4 J | ... W k z h g y k j L k y a z g t z J | ... P á m | g z á o X k x s W k z y l u x P á m | g z á o H k i g a u t Q g g á m 0 g x | ó v k v x á z g x | ó 422403936 *4242-0

K | v z g . T x g y n g t z 00 g t j **d u uv Z6a** - 6 "E t k s v á o g r y z j . u l G u s v | z á m [á n [u x j y g v v x u g i n k y l u x s | r z ó v k x y u t g t j y á m k / v k x y u t y z k s y 0 g x | ó v k v x á z

g x | ó 422606 ; ; 4 *4242-0

K | v z g . T x g y n g t z 00 g t j **d u uv Z6a** - 6 "T k i k v z | g r x k y u t á m h g y k j y u r | z a u t s k z n u j u r u m l u x r á m | g z á o u v z s o g z a u t v x u h r k s y 0 g x | ó v k v x á z g x | ó 422606 ; 55 *4242-0

K | v z g . T x g y n g t z 00 g t j **d u uv Z6a** - 6 "T g x g n k r v x u i k y y u x y i n k j | r á m l u x s | r g z a u t g y s | r z ó u h p k i z ó k r á m | g z á o u v z s o g z a u t g t j y u r | z a u t | y á m T k i k v z | g r V k g y u t á m h g y k j s k z n u j u r u m 0 g x | ó v k v x á z z g x | ó 422606 ; 77 *4242-0

F g t y n g r . W | s á 0 | s g x E v g x t g F g y | . Z á k q 00 W á m . W ú r g t q o K | v z g . g t j **d u uv Z6a** - 6 "H u g r z s k z á o s k t z a u t y á l u m u " T u " k x P g " y C I ' g k t i k l u s y u i g r s k j g s k t z a u t j g z g á E r z s k z á o i u s 0 g x | ó v k v x á z z g x | ó 423302 ; 29 ; *4242-0

a - u u x O v u -4E y n x l O g s g r . g t j Q u n g s s k j N 0 ' g q o E W x' k . u l J a n | x g z á k P g t m | g n k g t j á y G u s v | z g z a u t g r H k z k i z a u t á S t r á k W ú i g r R k z " u x q . E G Q



Xgt ygi zaut yut znk[kh.Zur036.Ru03.vv05-3/5-74.42420

a -u ux Ov u - gtj Qunj Jg-σ. Wui ghrhuzy=
M vgi zy.Xnxkgz/Hs kt yut y.gtj Hklkt yk Gngrkt nky.MI I
Xki nt urum gtj Wui dkz: Qgmg-ā k. 5; *5+ MI I. 4242. vv0
74/830

Gnktz g Q| s gxo **a -u ux Ov u -4** gtj Rgg|
W| hhgngu. I -vruxd m Qurki| rgx Hkyi xovzuxy gtj
Jā mxxā zū zu Txkj ōz s XSV Oā gyk Mndhāxy | yā m
Qgi nā k Pkgt ā mXki nt w| ky. MI I 1EGQ Xgt ygi zaut y ut
Gus v| zgzaut gr Fairum gtj Fairā luxs gzo y. vv0 3/34.
42420

Zā kxz OOVk| gr gtj **a -u ux Ov u -4** GEQS=E
Gut zk-z/E" gk Qu' d St zurum Kkt kxgzj lxs PS H gtj
Qu' d Hgzghgyky. Q| rzs kj g Xuury gtj Evvrō gzaut y.
Wxā nkxRgz| xk.4242.vv03/450

Gnktz g Q| s gxo **a -u ux Ov u -4** gtj Rgg|
W| hhgngu. Yyā m VQ SXI zu Hkgr " an Grgy/M hgrgt i k
Txuhrks ā Fairi zō ā: Hgzg zu Txkj ōz s XSV Mndhāxy.
Wxā nkxRgz| xk Gus v| zgxW d t i k. 3*5+ Wxā nkxRgz| xk.
4242.vv03/340

Qunj 0 Jg-σ gtj **a -u ux Ov u -4** E Wui ghrhuzy
Et gr yq/Hxō kt Kxgvn/Fgykj Evvxugi n lux Mkt zō ā m
Guuxj ā gzkj Ggs v gort yā X" āzkk Nu| xt grul Mzkrōkt z(
J| ... Wyzks y. Zur05: . Ru05. MWTxky. vv04; 83/4; 99.
42420

f fu ' 4 Et gtj . WGngt j xg. dPgxmk/s gxrā i gzdñ| zaut
s gi nā k/hgykj xkmkyaut . Rk| xgr Gus v| zā m gtj
Evvrō gzaut yWxā nkx4242.54*: +5855/586:

T Et gtj . **f fu ' 4** WGngt j xg. E i rgyy ul t k" y| vvuxz
' ki zuxxkmkyaut s uj kry. Evvrōkj WlzGus v| zā m 4242.
; 6.328668

T Et gtj . **f fu ' 4** WGngt j xg. d t k" gy s s kzo X
ā ykt yzō k vā hgr ruyy | t i zaut hgykj y| vvuxz ' ki zux
w| gt zō k xkmkyaut s uj kr. Evvrōkj WlzGus v| zā m
4242.; 6.3286/95

T Vgōgr. **f fu ' 4** W Gngt j xg. dVks ōy| vkk' gkj
[kōmzj Xkt gk Hki gaut Vbx| i z| xk lux Q| rzi gzkmux
Grgy dō gzaut . Rk| xgr Txui kyyā m Pkzky. Wxā nkx 4242.
74*4+3777/37: 4

Gnōzō QV0 gtj **Pu y yy406** dMi xgyā m XTW xgzk ul
yzgz hgykj hui qi ngā y h- vgxgrkr s ā ā m Mzkt k z
Xki nt urum Pkzky. [āk . St rā k yā i k Wkzks hxx 42420
MWR=4698/372: 0

W| -gt J0gtj **Pu y yy406** Gus v| zgzaut S llruj ā mlux

Hgzñ| zj Quhak I j nk Gus v| zā m Rkz" uxq=E Q| rzi
uhki zō k Evvxugi n. MI I Eii kyy. Zur0: . vv 36; ; 37 /
36; ; 52. E| m| yz42420MWR=438; /57580

Q-u y yy4PQ6 gtj S qol 0 dHklxms kt zgzaut Fgykj ut
Vu| z Tgxzaut ā m ā 3-3 Txuzki zj I rgyzō Svzō gr
Rkz" uxqy. Gus v| zgxRkz" uxqy. ' ur0399.4242.vv03/33. M=
50330

Hgzg Gnu| j n| x . T0Vkj j . TQV0 **Q-u y yy4PQ6** qol 0
gtj Hk. X0 dTkluxs gt i k ul Vu| zā m gtj Wki z| s
Errui gzaut Evvxugi nky lux Q| rzi gyz Xglō ā I rgyzō
Svzō gr Rkz" uxqy. Svzō gr JōkxXki nt urum . ' ur07: . vv03/
: . M=40340

Og| xV0K| vzg. E0V0 gyzj' g. E0 **Q-u y yy4PQ6** g. E0
Vgs gs | xzn . F0gtj Fungxg Z0 d/kyul xi k Errui gzaut gtj
UuWk| gxt zky luxVkgr[uxj M zglō ā Mzkmzgj] K/
TS R gtj MI I : 2403k I HGE Rkz" uxqy. MI I Eii kyy. ' ur0: .
vv046: : 5/346; ; 5.4242. M=50670

Og" ghgzg. E0 **Q-u y yy4PQ6** gtj S qol 0 dTgxzō ā gzaut
Hus gā Wkms kt zgzaut Fgykj Wk' kxWkri zaut Wnks klux
VkgrXā k Mzkgi zō k Gus s | t ō gzaut . MVI Xgt ygi zaut y
ut Gus s | t ō gzaut y. ' ur0 326/F. t u09. vv 958/969. 4242.
M=20360

Ens kj . X0Jkxj ul yoV0Xuxt gzu xk. Q0Q g. E0 **Q-u y yy4**
PQ6 gtj Q| qnkxkk. F0dH- t gs ō Vu| zā m Wki z| s . gtj
Quj | rgzaut Juxs gz Errui gzaut ā Q-ekj /Kxj Svzō gr
Rkz" uxqy. MI I 1SWE Nu| xt gr ul Svzō gr Gus s | t ō gzaut y
gtj Rkz" uxqā m' ur04. t u07. vv09; /: . 4242. M=50670

Zy yOxx y y u xW yxhu

Ov u - a 6 j krō kxkj g Ok. tuzk Wkkin ut "Wui ghr
Rkz" uxq Et gr. zō y= Gngxi zgxōzō y. Gngrkt nky gtj
Vkykxi n Hokizaut y" gz znk MI I Gus v| zgzaut gr
Mzkrōkt i k Wui dkz: *GMM- V s s kx Wnuur ut I s kxrā m
Vkykxi n Xkt j y ā Gus v| zgzaut gr Mzkrōkt i k Xnkux-
gtj Evvrō gzaut y". uxngt ō kj h- Svzō gzaut gtj
Qgi nā k Pkgt ā m Pgh. M Mj uxkj | xā m Ru' 048/4; . 4242

f u ' 6f6 j krō kxkj gt ā' ākj zgr ut ā Grgy dō gzaut =
Txuhrks gtj Emuxāns y ā znk ut rā k ynuxz/zks i ul xyk
kt zōkj ā vzs ō gzaut Xnkux . Qkznuj y gtj Evvrō gzaut y
j | xā m E| m| yz3: /42.42420

Q-u y yy4PQ6 j krō kxkj gt ā' ākj rki z| xk ut dVul zā m
gtj yvki z| s grui gzaut ā krgy zō uvzō grt k z' uxqy" ā znk
Jgi | rz- Hk' kruvs kt z Txumxs . yvut yuxkj h- E M X I .
Gut j | i zkj h- M y z ā z k ul I t nā k k x ā m (Xki nt urum . Hk' o
Enā g Y t ō k y ā . M j uxk . S i z u h k x 4 2 . 4 2 4 2 * Z o z | g r - θ

Q-u y yy4 P Q 6 j krō kxkj gt ā' ākj rki z| xk
ut dVxms kt zgzaut s gt grks kt z ā krgy zō uvzō gr
t k z' uxqy" ā znk Jgi | rz- Hk' kruvs kt z Txumxs .
yvut yuxkj h- E M X I . Gut j | i zkj h- M y z ā z k ul
I t nā k k x ā m (Xki nt urum . Hk' o Enā g Y t ō k y ā . M j uxk .
S i z u h k x 4 2 . 4 2 4 2 * Z o z | g r - θ

Q-u y yy4PQ6 j krō kxkj gt ā' ākj zgr ut ā' vxi g zō k
lxms kt zgzaut s gt grks kt z y nks k hgykj ut i xuyzgr/
g" gk hgi n vxi kyyā m lux yvki zgr / yvzgr- krgy zō
uvzō grt k z' uxqy" g z O uzu Y t ō k y ā . N r ; 4242. Ngvgt
*Zoz| gr-θ

g-u u4g6 j krō kxkj gt ā' ākj zgr ut ā' vvrō gzaut y ul
| t y| vkk' gkj rkgz ā m ā M X ā znk Jgi | rz- Hk' kruvs kt z
Txumxs . yvut yuxkj h- E M X I Xgā ā m gtj Pkgt ā m
*EXE P+ E i g j k s . ut Hgzg W d t i k gt j Qgi nā k Pkgt ā m
uxngt ō kj h- Hk v g z s kt z ul Gus v| zgx W d t i k gt j
I t nā k k x ā m O M X K x u | v y u l M y z ā z a u t y . K n g - g h g j . Y 0 T O
R u ' k s h k x 3 3 . 4 2 4 2 * Z o z | g r - θ

du y d y y x x u x i y w y R y y y x

Wgt j kkv Q| s gx Es ā OOVh| arg. gtj **d u uv Z6a - 6**
"Murgaut Juxkyz Fgykj Q| rzi Wū| xi k Yt y| vkk' gkj
Xgt ylx Pkgt ā m lux Qgyā m KHT Txkj ō zaut ō M 4242
Mzkt gzaut gr Nuā z Gut l k x t i k ut Rk| xgr Rkz" uxqy
*MGR R + v v 0 3 / : O M I I . 4 2 4 2 0

Xgt o gWkzn. gtj **d u uv Z6a - 6** "Tki kvz| gr
Gus v| zā m" an Gus vgxzō k Pā n| g zō I -vxyyaut y ō M
4242 MI I Mzkt gzaut gr Gut l k x t i k ut J| ... Wyzks y



*JY' ' /MI I +vv03/90MI I .42420

Eyn| zuyn Xō gxo U0Q0Hgt gn Pungt o gtj **d u uv Z6**
a - 6 "Mzcx' gr' gr| kj Mz| zaut gzo J| ... XSTVMW
s kznuj lux Wvvrōx Wkri zaut Txuhrks ō M 4242 MI I
Mzkt gzaut gr Gut l k x t i k ut J| ... Wyzks y *JY' ' /MI I +
vv03/: OMI I .42420

E . | yn O0Zgynt k . UQ Hgt gn Pungt o gtj **d u uv Z6**
a - 6 "M v x u ' k j T x u h g h g z o M z | z a u t g z o J | ... i /
Qkgt y Gr| yzkdā m Emuxāns =M v x u ' k j T M G Q ō M 4 2 4 2
MI I Mzkt gzaut gr Gut l k x t i k ut J| ... Wyzks y *JY' ' /
MI I + v v 0 3 / 8 0 M I I . 4 2 4 2 0

E . | yn O0Zgynt k . Txō gt qg Qknxg. **d u uv Z6a - 4**
gtj U0Q0Hgt gn Pungt o "Mzcx' gr/Zgr| kj J| ... i /Qkgt y
Emuxāns gtj Mzcx' gr/Zgr| kj Hkt yā /Fgykj J| ... i /
Qkgt y Emuxāns ō M 4242 MI I Mzkt gzaut gr Gut l k x t i k
ut J| ... Wyzks y *JY' ' /MI I + v v 0 3 / 8 0 M I I . 4 2 4 2 0

Txō gt qg Qknxg. Xgt o g Wkzn. gtj **d u uv Z6a - 6**
"Kkt kxgzā m U| grā: M X L I R V | rky lux Hghkzky | yā m
Pā n| g z o W s s g x o g z a u t ō M 4 2 4 2 M I I M z k t g z a u t g r
Gut l k x t i k ut J| ... Wyzks y *JY' ' /MI I + v v 0 3 / 9 0 M I I .
42420

Es ā OOVh| arg. **d u uv Z6a - 4** U0Q0Hgt gn Pungt o
dVks ō k r r o z o s k s h k x y n o | t i z a u t y g t j x k r g z j
gxāns k z o u v k x g z a u t y ō M X n k J o z k k t z n M z k t g z a u t g r
Gut l k x t i k ut J| ... Wkz Xnkux- gtj Evvrō gzaut y J V K E
4242. Porzu' yq N t . W u ' g q V k v | h r o . N g t | g x 4 8 / 5 3 . 4 2 4 2 0

Eyn| zuyn Xō gxo U0Q0Hgt gn Pungt o **d u uv Z6a - 6**
dVzcx' gr' gr| kj ā z| zaut gzo I| ... XSTVMW s kznuj lux

y| vvrkxykrki zaut vxuhrks 0M Xnk J0zkk zn Mzkt gzaat gr Gutlkxkt i k ut J|... Vlz Xnkux gt j Evv r0 gzaat y JVVE 4242. Pavzu' yq N t .Wu' gqVkv| hr0 .Ngt | gx 48/53.42420

E. | yn 00Zgxynt k. **d u uv Z6a - 4UQ** CHgt gn Pungt 0 dRuxs gr0kj j kt y0 hgykj 0 z 0 aut 0 z0 | |... i/s kgt y i r| yzka m grmux0ns 0 M Xnk J0zkk zn Mzkt gzaat gr Gutlkxkt i k ut J|... Vlz Xnkux gt j Evv r0 gzaat y JVVE 4242. Pavzu' yq N t .Wu' gqVkv| hr0 .Ngt | gx 48/53.42420

Qunj Jg-0.Es 0 Q| s gxWgn gt j **a -u ux Ov u -4E** L 0 xxi n0 gr Ezzkt zaut /Fgykj Rk| xgr Rkz' uxq Quj kr lux Wu| 0 rhuz Hkzki zaut 0 S VR. M Txui kkj 0 my ul znk 3; zn Mzkt gzaat gr Gutlkxkt i k ut [kh Mzkr0nkt i k * [M Qgrhu| xt k.E| yzgr0g.vv0B/: .Hki ks hxx36/39.42420

Rkygx Ens gj [gyo gt j **a -u ux Ov u -4** Hui| s kt z/Pk' kr Wkt z0s kt z Et gr. yoy znxu| mn Mi uxvuxgza m Txux Hus g0 0 t u" rkj nk 0 zu Pum0z0 Vkmkyyaut. M Txui kkj 0 my ul znk 3; zn Mzkt gzaat gr Gutlkxkt i k ut [kh Mzkr0nkt i k * [M Qgrhu| xt k.E| yzgr0g.vv0B/8.Hki ks hxx36/39.42420

Qj 0 Eyrgs Tgx" k. **a -u ux Ov u -4** gt j Ngn0| j j 0. E Wu| 0r Qkj 0 X0 k/Wkxky Hgzg Et gr. z0y Evv xugi n luxH0n0gr l v g ks 0 urum. M Txui kkj 0 my ul znk 3; zn Mzkt gzaat gr Gutlkxkt i k ut [kh Mzkr0nkt i k * [M Qgrhu| xt k.E| yzgr0g.vv0B/: .Hki ks hxx36/39.42420

Gnktz g Q| s gx0 **a -u ux Ov u -4** gt j Rg0 | W| hhg0gu. Yy0 m WQ SXI zu Hkgr " 0n Grgy/M hgrgt i k Txuhrks 0 Faigi z000 Hgzg zu T0kj 0 z s XSV Mnd000xy. W00 nkxRgz| xk Gus v| z0xW0kt i k. 3*5+ W00 nkxRgz| xk. 4242.vv0B/340

g 6b 6	Ru y	g v yw 7h w	g yu y bu y - Ozz u
3	3: 040242	H0gyz0xVky00kt i 0 Rk-z/Kkt k0gzaat S v z0 gr Rkz' uxqy	Hx0W0gzJkxj u yo Yt 0 kxy0 ul Ggr0uxt 0. Hg' 0y. YVE
4	3: 040242	Qgi n0 k Pkgt 0 mS0kt zkj Vkyu xi k Emui gzaat 0 Rk-z/Kkt k0gzaat S v z0 gr Rkz' uxqy	Hx0Vgn r Ngn' gt zhngo Mj 0t Mlyz0 z0 ul Xki nt urum. Hngx' gj . Mj 0
5	3: 040242	S v z0 gr E i i kyy Rkz' uxq=L 0zux gt j Vki kt z Vkykxi n Xuv 0 y	Hx0Xgqkn0au W0zu. O uzu Yt 0 kxy0 . Njvgt
6	3: 040242	Ej ' gt i 0 muvz0 gri us s t 0 gzaat gt j s kgy xks kt zy. yzks y ya ms gi n0 k rkgxt 0 m	Hx0Hgxqu' 0hgx Xki nt 0 gr Yt 0 kxy0 ul Hkt s gxq. Hkt s gxq
7	3: 040242	Jrk-0nrk. Vki xk gt j l t kxm l l l 0 0 kt z X0s k gt j [g' krkt m0n H0 0 aut Q rz0rk-kj Tgyy0 k S v z0 gr Rkz' uxq *X[HQ / TS R+	Hx0Ku zgs Hgy. Mj 0t Mlyz0 z0 ul Xki nt urum Ongxgm x Ongxgm x

a -u ux Ov u -4 Qunj 0Jg-0. gt j Xgx0| k Et " gx E Gut z0-z gr Wks gt z0 /Fgykj Evv xugi n luxHus g0 /Gkt z00 Pk-0 ut l -vgt yaut. M Txui kkj 0 my ul znk 53yzE| yzgrgy0gt Hgzghgyk Gut lkxkt i k *E HG+ Q krhu| xt k. E| yzgr0g. PRGW vv0438/446.Jkx| gx 6/9.42420

Q-u y yy4P006 gt j S qo l 0 dHklxgns kt zgzaut lux 3- 3 Txuzki zkj l rgyz0 S v z0 gr Rkz' uxqy=E Vu| z0 Tgzaat 0 m Evv xugi n. 38zn Mzkt gzaat gr Gut lkxkt i k ut M - S v z0 gr Rkz' uxq *0 TS T4242+ 32/33 Wkvz 4242. Njvgt *Z0z| gr Gut lkxkt i k 0

S qo l 0 W0" g. X0 Lk. J0 W0zu. X0 gt j **Q-u y yy4P006** 0 Tkluxs gt i k ul L 0 rky Hklxgns kt zgzaut " 0n Vku| z0 m lux U| gyo3- 3 Txuzki zkj l rgyz0 S v z0 gr Rkz' uxqy. Txui 0ul 43zn M0XS R. 3; /45 N r. 4242. Fgx0 M0gr. vgvkx Q u 0 H500 0 M' 0kj vgvkx0

g-u u4g6 gt j Tks u. W0 0 Tkluxs gt i k Et gr. yoy ul Zgx0| y l t z0uv. Qkgy| xky 0 Ggzkmux0 gr Hgzg Gr| yzka m M l l Mzkt gzaat gr Gut lkxkt i k ut Gus v| zgzaut gr Tkluxs gt i k l' gr| gzaat *Gus Tl 0 4/6 N r. 4242. Mj 0 *Z0z| gr Gut lkxkt i k 0

O -y uvuxy wuv y y y

E ut k/j g. [uxqynuv ut Rk-z Kkt k0gzaat S v z0 gr Rkz' uxqy" gyuxngt 0 kj ut 3; zn Hki ks hxx42420HXF00. Gngt j Gngz0x0kki uuxj 0 gzkj znk" uxqynuv 0

j zgw- u -y Ry 0Tuw 7g ywu [yw y

g 6b 6	Ru y	g v yw 7h w	g yu y bu y - Ozz u
3	45030242	Z0j gr Et gr. yoy gt j Vkvxkykt zgzaut y ul X v k/4 J ... Qks hkyxn0 J t i zaut y	Hx0Jxgt q Gn t m L uut Vnkk. L gt . gt m Yt 0 kxy0 . Ouxkg
4	29040242	Gur yaut 0 S t r0 k Qkj 0 =Et Yt uxznuj u- Ej ' kxyg0gr Ezzgi q	Hx0Xgt s u. Gngq0ghuz. M M Hkmo Mj 0
5	46040242	J ... V rk Fgyk Mz0xv urgzaat Yy0 m Kkus kzx 0	Txul 0 Hkh0gt 0 Gngq0ghuz. M M Ongxgm x Mj 0

g xy 0w- y y y

g y u g-u u4 TnH *4242+ngy hkt yrki zkj gy gt Evvrdkj Wkt z0z0 znk Es g- ut . Mj 0

O - Z6ju - y 4 QW *4242+ngy hkt yrki zkj znk TnH vxumxgs " 0n l| r l0 gt i 0 gr y| vvuxz0 znk Ys k Yt 0 kxy0 . W kj kt 0

d u ua y- ungy p00 kj QW *4242+ngy p00 kj znk TnH vxumxgs " 0n l| r l0 gt i 0 gr y| vvuxz0 znk Hgrgt g Yt 0 kxy0 . W kj kt 0

gu Z u ungy QW *4242+ngy p00 kj znk TnH vxumxgs " 0n l| r l0 gt i 0 gr y| vvuxz0 znk Ys k Yt 0 kxy0 . W kj kt 0

Ovx kux x4 QW *4242+ngy hkt yrki zkj gy g Pki z| xk 0 znk Vgpyngno Ggt zut s kt z T| hr0 Wnuur gt j Gurknk. Vgpyngno Fgt nrj kyn

gu yx V u - guxu 4 QW *4242+ngy hkt yrki zkj gy g Wulz' gx Hk' kruv kx0 Ogh| r. Elmggt 0zgt

g-u v- du u 4 QW *4242+ngy hkt yrki zkj gy g Pki z| xk 0 znk Es x0 Ggs v| y. Ogzn s gt j | . Rkvgr

cvux u- nu u x4 QW *4242+ngy hkt yrki zkj gy g Hgzg Wkt z0z0 znk Rgzaat gr W0z0z0 y gt j M l luxs gzaat E| znux0 . Ogh| r. Elmggt 0zgt

gu v-u Yu 4 QW *4242+ngy hkt yrki zkj lux Tn 0 H0 *GW-Ej s gyaut 0 znk Wu| zn Ey0gt Yt 0 kxy0 . Rk" Hkmo Mj 0

cvux u-U-u 4 QW *4242+ngy hkt yrki zkj gy gt Eyy0zgt z Txulkyyux 0 gt | t 0 kxy0 0 Ogt j gngx Elmggt 0zgt

g u dy 4 QW *4242+ngy hkt yrki zkj gy gt Eyyui 0z0k Pki z| xk 0 znk Vu. gr Yt 0 kxy0 ul Fn| zgt. Qut nr0x Fn| zgt

O- ux Yuu u 4 QW *4242+ngy hkt yrki zkj lux Tn 0 H0 *GW-Ej s gyaut 0 znk Wu| zn Ey0gt Yt 0 kxy0 . Rk" Hkmo Mj 0

a -u ux hu v V xy 4 QW 0 *4242+ngy hkt yrki zkj gy gt Eyy0zgt z Hgzghgyk Ej s 0 0z0z0x 0 znk W0t gr0gt q P0 0 kj . L kj S l l 0 k. Quz0nkr. Hngq00

hu ugy -4 TnH Wnurgx ngy hkt g" gx kj " 0n M l l G W mxt z zu xk0z0x gt j vkykt z nkxkykxi n vgvkxy gz 4242 M l l Mzkt gzaat gr i ut lkxkt i k ut J|... Wyzks y *JY' ' / M l l 4242+ 0 znk [uxj Gut mky ut Gus v| zgzaut gr Mzkr0nkt i k * [GGM 242+nkrj 0 Krgymu" . YOluxs N r. 3; / 46.4242



Department of Mathematics

Department of Mathematics

Faculty of Mathematics & Computer Science

Xnk lgi | rz : s ks hkx d znk Hkv gxs kt zul Qgz nks gzo y. Wul zn Eyogt Yt o kxya : s gj k' gr| ghri ut zoh| zait yk' kt gz znk z s k " nkt znk " uxj " gy xkr d m| t j kx rui qj u" t gt j vgya m znxul m | t i kxzg d zky j | k zu Gu' o 3; vgt j ks o O nkl luxzyznk. ng' kv| za " armu grut m" g. d yzkt nznk d mznki gkxklul t j gza ut yul znk yz j kt zy0

Erznu| m znk Hkv gxs kt zi ul rj t uz| t i zait d gt ux s gr " g. znk j kj o gzkj lgi | rz : s ks hkx ul znk Hkv gxs kt z s gj k y| xk zngz znk gi gj ks o gi zo adky j o t uzy| llkx j | k zu znk vgt j ks o yz| gza ut OErr znk lgi | rz : s ks hkx muz gj gvz kj zu znk ut ra k gi gj ks o gi zo adky0 Xnk Hkv gxs kt z yzgz kj zkgi na mut ra k glzx znk rui qj u" t ut 3: zn Qgxi n 4242. uhykx' d mgr Gu' o 3; m' o kra ky oyl kj h- znk nuyz mu' kxt s kt z lxus z s k zu z s k0Err vuyyohrk vki gl zait gx- s kgy| xky " kxk hka mlumu" kj h- yz j kt zy. zkgi nkxy. gt j t ut /zkgi na myzjl10

Err ul x yz j kt zy lxus j d l kxkt z i ul t z dky i uuvk xgz kj d i ut j | i za mznk ut ra k i rgyky ys uuznr. 0Jk" yz j kt zy. vgz o | rgr- znk ut ky lxus Elmg t o zgt gt j Fn| zgt. d a g r- ngj yus ka zxt kzi ut t ki zo a- vxuhrks yh| zznk- lgi kj gri ngrkt nky vuyzo kr- gt j t k' kxrkz znk o j kyok ul rkgx d m lgi k g" g- 0 Ev gxs lxus xkn' r g x zkgi na m gt j d' azkj zgrqy. znk Hkv gxs kt z i krxhgz kj R gza ut gr Qgz nks gzo yHg- ut 44t j Hki 42420H| xa mznk Gu' o 3; v kx u j . g t | s h x ul TnH yi nurgy j k lkt j kj znk a znkyky gt j TnH j kmakky " kxk g" gx kj 0 Err znk yant do gt z

s kka ny d i r j d m znk Fugj ul V d j dky. Ei gj ks o Gus s azkk. vkykt z gza ut y gt j k-gs d gza ut y " kxk nkri ut ra ky| i i kyy| r- OH| xa mznk vgt j ks o. znk Hkv gxs kt z xki ko kj g xk" gxj d zks yul xki unt a ut ul ayz" ul gi | rz : s ks hkx hka m d i r j kj d znk r g z ul zuv 4& yi dkt zoyz ul znk " uxj .v| hr ynkj h- V dgt luxj Yt o kxya : .YWE0

g xy Ox yxu xQ 5k yP yu 5
bu y zd ' u yH 6v60 yxa u -y u w
Pu w-H9?9

Elmg t o zgt	8	Qgr j o ky	2
Fgt mgj kyn	3	Rkvgr	3
Fn zgt	8	Tgqozgt	3
Mj o g	37	WkoPgt qg	2
S znkxy	2		

bu y zd ' u yH-Rau -y u w
Pu w-HD

Elmg t o zgt	4	Qgr j o ky	2
Fgt mgj kyn	7	Rkvgr	7
Fn zgt	2	Tgqozgt	2
Mj o g	43	WkoPgt qg	2
S znkxy	2		



Ry u zTu w a y vy

	bu y	d-R Ozz u . nyu	Ry ' u	O yu zg ywu u 7W y y
	Ogv o Q s gx W hgs g	Mj o g t Mlyza zk ul Xki nt urum Ogt v x Mj o g 4226	Txulky yux (Gngovkxyut)	R s kxo gr Et gr- yoy. Hkr g- Hd l kxkt zagr l w gza ut y. V d n' r g x T k x z x h gza ut Xnkux . J d a k l rks kt z Q k znuj y
	Vgt o g t Q s gx Qungt z	Mj o g t Mlyza zk ul Xki nt urum Hkmo Mj o g 3; ; 2	Txulky yux	R s kxo gr Et gr- yoy. Rus d gr T g x zagr Hd l kxkt zagr l w gza ut y. Gus v z gza ut gr J r o H- t gs o y. T g x r k r E m u x a z s y
	Hkkvg V d ng	Yt o kxya- ul Hkmo Mj o g 4229	Txulky yux	K x g v n Xnkux
	Tgt o g p N g d	Yt o kxya- ul Hkmo Mj o g 3; ; 8	Txulky yux	J t i zait W r gi ky. [k o m z k j R u x s M l k w g r a d k y. M l z k m g r S v k x g z u x y. J u x d x E t g r- yoy. R s k x o g r Q k znuj y0
	Rg' t a N h g	Yt o kxya- ul Hkmo Mj o g 4227	Eyyui o g z k Txulky yux	R s kxo gr Et gr- yoy. Hd l kxkt zagr l w gza ut y. W d k t z d o Gus v z d m
	Ngnj o n Gngt j Fgt ygr	Mj o g t Mlyza zk ul Xki nt urum Vuuxqkk. Mj o g	Eyyui o g z k Txulky yux	S v z s o gza ut Xki nt o v ky. W g s M l z k r o n k t i k0
	U O O H g t o n Pungt o	E r o n g x n Q y r a s Yt o kxya . Mj o g	Eyyui o g z k Txulky yux	J ... P u m o y. J t i zait gr Et gr- yoy. Q k g y x k y ul R u t / i u s v g i z t k y y g t j Q g z a- X g t y l u x s gza ut y. V d g z o z o g r E v v u - a s gza ut y. V d u i n g y z o T x u i k y y k y
	V d x u p Q s g x V d n g t o	Mj o g t Mlyza zk ul Xki nt urum Vuuxqkk. Mj o g 422:	Eyyo g z t z Txulky yux *Wk+	Qgz nks gzo gr Faurum . Rut /ra k g x H- t gs o g r W y z k s . F a i d l u x s g z o y

O u x 7v 7g ywu f yw'

g -u Ryy uH

Qks h x Fugj ul V d j dky. W nuur ul Fgy o gt j Evv r d k j W d k t i ky. O v Q g t m g r g s Yt o kxya- K | x r g u t . Mj o g

Qks h x E j ' o u x- K x u | v ul Hkv gxs kt zul Qgz nks gzo y gt j W d k t z d o Gus v| z d m Q g j g t Q u n g t Q g r ' o g Yt o kxya- ul Xki nt urum . K u x g q n v | x Mj o g

Yu 4du u H

Qks h x Fugj ul V d j dky gz G n F g t y o P g r Yt o kxya- *F n o' g t o

Qks h x Fugj ul V d j dky g z E s a- Yt o kxya- *R u o' g t o

Qks h x Hkv gxs kt zgr Vkyk g i n E j ' o u x- Gus s azkk. Mj o g K g t j n o' t o kxya- . Q k k x v | x V k " g x o

g-u u 4Zu Z 6H

Qks h x Fugj ul V d j dky gz Gngt j o n g r n Yt o kxya- *Q u n g r o

Pu u 4Yu' x -Q-u x

Qks h x L E T W E r o g t i k

Qks h x Fugj ul V d j dky g z F g h | F g t g y o g y Yt o kxya- P | i q t u " 0

c -y Ow y u xOw-y y y

g -u4Ryy u4*Qks hxxul Rgzait grEj' gux Gus s azkk+ Jók/Hg- Mzkt gzait gr Gut lxxk tik ut Vki kt z Xxkt j y á Qgzns gzo ygt j MjEvvró gzait yzu Kxgvny.Rkz' uxqygt j TkzoRkzy *GVXQE/KTR/4242+ Wnuur ul Gus v| zgzait gr gt j Mzkmgzó k Wdtki ky. Nj" gngxgr Rknx| Yt ó kxyæ. Rk" Hkmd332289. Mj æ. Nj r. 42 46.42420

g -u4 Ryy u4*Gngokj Wkyaut + á znk Jók/ Hg- Mzkt gzait gr Gut lxxk tik ut Vki kt z Xxkt j y á Qgzns gzo ygt j MjEvvró gzait yzu Kxgvny.Rkz' uxqygt j TkzoRkzy *GVXQE/KTR/4242+ Wnuur ul Gus v| zgzait gr gt j Mzkmgzó k Wdtki ky. Nj" gngxgr Rknx| Yt ó kxyæ. Rk" Hkmd332289. Mj æ. Nj r. 42 46.42420

g -u4 Ryy u4*Gngokj Wkyaut + Ju| x/Hg- S tr á k Rgzait gr Gut lxxk tik ut T| xk gt j Evvró j Qgzns gzo y *RGTEQ/4242+. S xmg t o k j h- Hkv gxs kt z ul Qgzns gzo y. Ogxt gzgqg. Mj æ. E| n| yz33/36.42420

g -u4Ryy u4*Qks hxxul Rgzait grEj' gux Gus s azkk+ X" u/Hg- Mzkt gzait gr Gut lxxk tik ut l s kxnt mXxkt j y á Zkj ó Qgzns gzo y(Evvró gzait y á Wdtki k. Xki nt urum gt j Wui ær Wdtki ky Nj" gngxgr Rknx| Yt ó kxyæ. Rk" Hkmd332289. Mj æ. nkrj ut r á k j | x á mE| n| yz 38 39. 42420

g -u4 Ryy u4*Qks hxx ul W dkt zó T xumxgs Gus s azkk+ ut r á k Mzkt gzait gr Gut lxxk tik ut Kxgvn Pghkrá mgt j Evvró gzait y MjKPE/4242 *| kh á g x á ru' á m s ks ux- ul rgzk Txul0 F0H0 Ei ngx g. Hkv gxs kt z ul Qgzns gzo yul Kug Yt ó kxyæ. Kug/Mj æ. Wkvzks hxx39/ 3; .42420

g -u4Ryy u4*Gut' kt kx+ Nj x i us s azkk luxznk TVS J0V0 W0ZEVQE FI WK TETI V E[EVH GS QTI XMMR gz znk 4: zn Mzkt gzait gr Gut lxxk tik *Zoz| gr+ ul Jux| s lux Mzky oi á r á g x- Vkykxi n * XZQ/EVXWW/4242.38/39 E| n| yz 4242+ nuyzkj gz Wki ær Gkt z k lux l Pkgt á m Qgzns gzo y *JN+ / W t kxmk y á Gus v| zgzait gr. Qgzns gzo gr. Vgzyzó gr gt j Tn- yó gr Wdtki ky *JN 4: = VEQVW4242+ uxngt o k j h- JN. Vkrng Qgxy Gurknk. Gnkt t go gt j Wó Wó gyl hxs gt o g Rgj gx Gurknk ul l t m á k k x á m Ogrg' gqags .Xgs á t g j | .Mj æ. Ru' ks hxx45/ 49.42420

g -u4Ryy u4*Gut' kt kx+ 48zn Mzkt gzait gr Gut lxxk tik ul Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky ut Ej' gt i ky á Hólkkt zgr l w g zait y (Qgzns gzo gr

Quj krrá m *V/EHI /QQ/4242+ N á z- uxngt o k j h- Wnuur ul Gus v| zgzait gr gt j Mzkmgzó k Wdtki ky. NRY. Rk" Hkmd332289 (Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky *V/TW/Hki ks hxx3: /42.42420

g -u4 Ryy u4*Gngokj ykyaut + á znk ut r á k Mzkt gzait gr Gut lxxk tik ut Kxgvn Pghkrá m gt j Evvró gzait y MjKPE/4242 *| kh á g x á ru' á m s ks ux- ul rgzk Txul0 F0H0 Ei ngx g. Hkv gxs kt z ul Qgzns gzo yul Kug Yt ó kxyæ. Kug/Mj æ. Wkvzks hxx39/3; .42420

g -u4 Ryy u4*Gngokj Wkyaut + 4: zn Mzkt gzait gr Gut lxxk tik *Zoz| gr+ ul Jux| s lux Mzky oi á r á g x- Qgzns gzo y *JN+ / W t kxmk y á Gus v| zgzait gr. Qgzns gzo gr. Vgzyzó gr gt j Tn- yó gr Wdtki ky *JN 4: = VEQVW4242+ uxngt o k j h- JN. Vkrng Qgxy Gurknk. Gnkt t go gt j Wó Wó gyl hxs gt o g Rgj gx Gurknk ul l t m á k k x á m Ogrg' gqags .Xgs á t g j | .Mj æ. Ru' ks hxx45/ 49.42420

g -u4 Ryy u4*Gngokj Wkyaut + 48zn Mzkt gzait gr Gut lxxk tik ul Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky ut á j' gt i ky á Hólkkt zgr l w g zait y (Qgzns gzo gr Quj krrá m *V/EHI /QQ/4242+ N á z- uxngt o k j h- Wnuur ul Gus v| zgzait gr gt j Mzkmgzó k Wdtki ky. NRY. Rk" Hkmd332289 (Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky *V/TW/Hki ks hxx3: /42.42420

g -u4Ryy u4*Gngokj Wkyaut +: 8zn E t t | gr Gut lxxk tik ul Xnk Mj æt Qgzns gzo gr Wui á z- Et Mzkt gzait gr Qkkz ZM Zkmux *S t r á k Gut lxxk tik + Hki ks hxx39 42. 42420

Yu 4du u 4*Wkyaut Gngokj + Mzkt gzait gr Gut lxxk tik ut Vki kt z Xxkt j y á Et gr yy (S v z s o g zait *GVXES / 4242+ uxngt o k j h- Rgzait gr Mlyz z k ul Xki nt ó gr Xkgi nkxyč Xg á mgt j Vkykxi n *R MXXV+ Fnuvgr j | x á m Ru' ks hxx; /33.42420

Yu 4du u 4*Wkyaut Gngokj +: 8zn E t t | gr Gut lxxk tik ul Xnk Mj æt Qgzns gzo gr Wui á z- Et Mzkt gzait gr Qkkz ZM Zkmux *S t r á k Gut lxxk tik + Hki ks hxx39 42. 42420

g-u u4Zu Z4*Gngokj Wkyaut + 48zn Mzkt gzait gr Gut lxxk tik ul Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky ut á j' gt i ky á Hólkkt zgr l w g zait y (Qgzns gzo gr Quj krrá m *V/EHI /QQ/4242+ N á z- uxngt o k j h- Wnuur ul Gus v| zgzait gr gt j Mzkmgzó k Wdtki ky. NRY. Rk" Hkmd332289 (Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky *V/TW/Hki ks hxx3: /42.42420

g-u u4Zu Z4*Gngokj Wkyaut + Mzkt gzait gr Gut lxxk tik ut Mzkmgzó k Mzky oi á r á g x- M t u' g zait y á l t m á k k x á m *V/M 4242 + Tgt pgh Yt ó kxyæ. Gngt j o r g n l x u s 4: /52 E| n| yz 42420

g-u u4Zu Z4*Gngos gt. W dkt zó Ej' gux- Gus s azkk+ Mzkt gzait gr Gut lxxk tik ut Mzkmgzó k Mzky oi á r á g x- M t u' g zait y á l t m á k k x á m *V/M 4242 + Tgt pgh Yt ó kxyæ. Gngt j o r g n l x u s 4: /52 E| n| yz 42420

Y-u4 bu 4*Tgxó á g t z+ Mzkt gzait gr " kh á g x ut U| á zó gt j U| á zó g z k j t ut r á k g x u y i o r g z u x y. Tuux á g Gunknk ul l t m á k k x á m Ouzg. Vg p y z n g t . 39/ N t k / 42420

Y-u4bu 4*Tgxó á g t z+ " u j g- y á z k t g zait gr " kh á g x ut g z ó á g r á z k r r á k t i k g t j s g i n á k r k g t á m 9 : N j r . 4242. Fghg J g x j Gurknk. T g z a g r g

Y-u4 bu 4*Wkyaut Gngox+ 48zn Mzkt gzait gr Gut lxxk tik ul Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky ut á j' gt i ky á Hólkkt zgr l w g zait y (Qgzns gzo gr Quj krrá m *V/EHI /QQ/4242+ N á z- uxngt o k j h- Wnuur ul Gus v| zgzait gr gt j Mzkmgzó k Wdtki ky. NRY. Rk" Hkmd332289 (Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky *V/TW/Hki ks hxx3: /42.42420

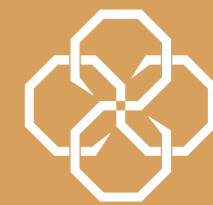
Y-u4 bu 4*Wkyaut Gngox+ Exzó á g r Mzkrá k t i k. Wkvzks hxx27/28.4242. WulzGus v| z á m Vkykxi n Wui á z- . Gut mky y ut Mzkrá k t z Wyzs y. [uxj Gut lxxk tik á Zoz| g r l u x s g z+

Pu u4 Yu' x - Q-u x4 Uj y u Q-u 1 6zn Mzkt gzait gr N á z Gut lxxk tik ut Ej' gt i ky á Gus v| zgzait gr Mzkrá k t i k *V/EGM4242+ uxngt o k j h- Hgl l u j á Mzkt gzait gr Yt ó kxyæ. Hngqg. Fgt m g j k y n ut 42/43 Ru' ks hxx42420

Pu u4 Yu' x - Q-u x4 Uj y u Q-u u x gy Q-u 1 32zn Mzkt gzait gr Gut lxxk tik ut WulzGus v| z á m lux Txuhrks Wul' á m 4242 uxngt o k j h- Mj uxk Mj æ. j | x á m 3: /42 Hki 042420

gu-u 4 gu Z u 4*Gngokj Wkyaut + 48zn Mzkt gzait gr Gut lxxk tik ul Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky ut á j' gt i ky á Hólkkt zgr l w g zait y (Qgzns gzo gr Quj krrá m *V/EHI /QQ/4242+ N á z- uxngt o k j h- Wnuur ul Gus v| zgzait gr gt j Mzkmgzó k Wdtki ky. NRY. Rk" Hkmd332289 (Mzkt gzait gr Ei gj ks . ul Tn- yó gr Wdtki ky *V/TW/Hki ks hxx3: /42.42420





Faculty of Social Sciences

Department of International Relations

Faculty of Social Sciences

Mi znoy . kgy ul ' ocl gr i rgyyus y gt j yk d gxy. znk Hkv gxs kt z ul Mzkt gzaot gr Vkr gzaot y i ut za | kj " an ay klluxy zu gj ' gt i k znk yz | j . ul Mzkt gzaot gr Vkr gzaot y d Wu | zn Eyog | an znk g s zu j xg " gzzkt zaut zu znk xkmout gr j s kt yout y ul znk vgt j ks o. a uxngt gkj g " kha gx ut Euyz/Gu' g Wu | zn Eyogt Fuxj kyc d Ru' ks hxx 42420 Ej j aout gr . n) kyzvkgakxyj kro kxj yk d gxyut gxgt nk ul y | hki zy. d i r | j d m j qvrgi ks kt z j | xa m znk Tgxzaut "y+t | i rkgxvurao y. vu" kx d znk j onzgrgnk. xurk ul tut /yzgk gi zuxy d znk vgt j ks o. gt j j o i r d gx hu | t j gxdyul MO

Xnk Hkv gxs kt z i urghuxgkj " an znk Mj ogt Gul t i o ul [uxj Ellgoy zu uxngt o k g " kha gxut d us kt gt j Tu" kx= Kkt j kx " an d Mzkt gzaot gr Vkr gzaot y gt j Hovrus gi . d a Si zu hxx42420 kha gxy " kx gryu uxngt o k j zu rj | t i n znk v | hro gzaot ul z " u huuy. Og | z o g y Exngyngygzg= Tnauyv n . ul Vbzgkm "Vu | zrkj nk+ g | znuxj h . Hx0 Qkj ng Fonz gt j Rk " Hoki zaut y d [us kt . Tkgi k gt j Wki | xz : "Fxyzur Yt o kxya : Txky+i u /kj akj h . Hx0 Wu | s og Fgy | 0

Mj kkj . znoy " gy g vgxz | rgr . vxuj | i zo k . kgy lux znk Hkv gxs kt z E y j kzagkj gznk kt j ul znk xkvuxz lo k TnH gt j ut k Q T noj kmkky " kx g " gxj kj zu xkykxi nyi nurgxy? znoy o g zkyzgs kt z zu znk d zkrki zgt j vkyk' kxgt i k ul u | x yz | j kt z huj . 0 Jgi | rz s ks hkxy gt j yz | j kt z v | hronkj ut g " g k gxxg . ul zu v o y . d i r | j d m huxj kxy gt j hu | t j gxdy . nkuvurao y . g kt z o : gt j yki | xz . s gzas k Wu | zn Eyog . zgt yt gzaot gr i | xgzaot . gt j YR vurao dky . d vxus d kt zgi gj ks o | pu | xt gry0

Mi Ngt | gx 4242. znk Nu | xt gr ul znk Mj ogt Si kgt Vkmout s u' kj zu znk Hkv gxs kt z " an Txulkyuy Vgt g Gngz | x kj oyk d mgy znk Gnd | j aux0 Jgi | rz s ks hkxy " kx d ' akj zu xk' d " lux vkyzom | y pu | xt gry. d i r | j d m Mzkt gzaot gr Ellgoy . Mzkt gzaot gr Jks d o z Nu | xt gr ul Turao y . Mzkt gzaot gr V | j dky U | gxzkr . Nu | xt gr ul Fuxj kxrgt j y V | j dky . Xnoj [uxj U | gxzkr . gy " krr gy v | hronkxy . d i r | j d m Gur | s h o Yt o kxya : Txky . Tgmog' k Qgi s ogt . S -luxj Yt o kxya : Txkygt j Vu | zrkj nk0

Eyg kmout gr | t o kxya : znk Hkv gxs kt z o gzzkt zo k zu znk

t kkj zu luykx yi nurgx . i urghuxgzaot y gt j t kz' uxoy d Wu | zn Eyog | Jgi | rz s ks hkxy ullkxj znk k-vkzgyk zu | t o kxya dky gt j uxngt o gzaot y d znk j k' kruvs kt z ul rkgx d mgt j xkykxi n vxumgs y xkrz d mzu d zkt gzaot gr xkrzaut y0 Xnk . " kx gryu d ' akj zu yngk znk xkykxi n " an yi nurgx . i us s | t o kxya d znk xkmout gt j hk . ut j . " an zki nt urum gj j xky d mznk i ut yzgd zy ut vn . yo gr z o j' kr0

Xnk gi nd' ks kt zyul za kj d znoy xkvuxz j ks ut yzgzk znk xkyo d t i k ul yz | j kt zy . lgi | rz s ks hkxy gt j ull o k yz | l " nu yzu' k zu xkr o k znk s gt j gzk ul znk | t o kxya : . k' kt gy znk . kt i u | t z kxj yk' kxgr i ngrkt nky " xu | mmz / gt j hu | mmz zu romz / h . znk vgt j ks o . l xus nkgrzn i ut i kxt y zu yui o r d kv | o kxy . gs ut muznkxy0 Xnk rkyut yrkgx za znk vxui kxy . d i r | j d mznk g xz ul z o : kr . d t / s | za ncut ut r d k vrgzlux y . ynu | rj yk' k | ygr " krr d znki us d m kgy0

g xy ux yx u x w 5 yv yu 5

bu y zd ' u yH oW y u u fy u

Pu w-H9?9






Elmgt o zgt	9	Q grj o ky	2
Fgt mgj kyn	7	R kvgr	4
Fn zgt	2	T g q o zgt	2
Mj o g	35	Wko Pgt qg	2
S znkxy	2		

bu y zd ' u yHa d- 7d- R W y u u fy u

Pu w-HD

Elmgt o zgt	3	Q grj o ky	2
Fgt mgj kyn	3	R kvgr	3
Fn zgt	2	T g q o zgt	2
Mj o g	5	Wko Pgt qg	2
S znkxy	2		

Ry u zTu w a y vy

	bu y	d-R Ozz u . nyu	Ry ' u	O yu zg ywu u W y y
	Vgt g Gngz x kj o	Tgt g h Yt o kxya : Gngt j onxn . Mj o g 3 ; ;	Txulkyuy Hkgt . JVVW Gngov kxyut /Hkv z0ul M	Xnkuxky gt j Txgi zo kyul Kkuvurao y " an Wki o r Vklkxkt i k zu Turgx Vkmout y gt j Mj ogt Si kgt . G r o gzk Gngt nk . Rut / [kyzkt M
	Wu s og Fgy	Ehkx yz' . zn Yt o kxya : Y.O. 422;	Eyyozgt z Txulkyuy *WK+	Xnk Yt akj Rgzaot y . Jks d o z Mzkt gzaot gr Vkr gzaot y . Gxao gr Wki xz : V j dky . YR Wki xz : Gul t i o Vkyur zaut y ut [us kt gt j Tkgi k gt j Wki xz . Q rzogzkr Hovrus gi .
	Qkj ng Fonz	Nj" gngxgr Rkn Yt o kxya : Rk " Hkmo Mj o g 4232	Eyyozgt z Txulkyuy *WK+	Eyogt Vbzgkm Xnu mmz [gzkx Ku' kxt gt i k gt j Hovrus gi . Wu zn Eyogt Turao y
	Rghgx t Vu .	Ggrkz ut Yt o kxya : S z z g " g . Ggt gj g 4233	Eyyozgt z Txulkyuy *WK+	Xnkuxky ul Mzkt gzaot gr Vkr gzaot y . Mj ogt Juxk o r t Tur o . . Kxkgz Tu " kxy d Mzkt gzaot gr Vkr gzaot y . Kkuvurao y ul Eyogt j Wu zn Eyog
	Wu " kzg Wu m	Wnuur ul Mzkt gzaot gr V j dky . Nj" gngxgr Rkn Yt o kxya : Rk " Hkmo Mj o g . 4234	Eyyozgt z Txulkyuy *WK+	Jks d o z Mzkt gzaot gr Vkr gzaot y . Jks d o z Tkgi k Vkykxi n . Gxao gr Tkgi k gt j Gut l r o z V j dky *Wu zn Eyogt + [us kt . Tkgi k gt j Wki xz : *Wu zn Eyogt + Gxao gr Tkgi k j i gzaot . E k g yz dky lui y = W o Pgt qg . Ogy ns a gt j Elmgt o zgt
	Hngt gt g Xov gzo	Nj" gngxgr Rkn Yt o kxya : Rk " Hkmo Mj o g . 4232	Eyyozgt z Txulkyuy *WK+	Vkmout y . Vkmout g r o s gt j Fuxj kxy *Wu zn Eyog (l xuvk + gt j Turao gr l i ut us .
	Nj . gynkk Zo kqgt gt j gt	Nj" gngxgr Rkn Yt o kxya : Rk " Hkmo Mj o g . 422:	Eyyozgt z Txulkyuy *WK+	L o zux : gt j M znkux . Mj ogt yzgzkno znu mmz gt j vxgi zo k . s ks ux vuraoy . zgt yhu t j gx xkyu xi k mu' kxt gt i k d Wu zn Eyog

U u u xTy - w zy yx y vy z -yTuw

Txd i o gr M' kyzongzux Xazk ul Kxgtz J| t j d m Enkti . . H| xgzaut ul Txu|ki z U| gt z| s ul J| t j d m

Pu 4g u " gy g" gxi kj g Vkykxi n Jkmu" yn o " a n znk Gkt z k lux Kkt j kxgt j Elx o g V| j d y. Yt o kxya ul znk Jxk V|z k. Fruks lut z k a . W| zn Elx o g. lux znk v kxaj Qg- 3.4242 / Ev x a 52.42450

P - 4a yx-u " gy g" gxi kj g Gut y| rzgt i . Kxgtz h- S] JEQ. Ggs huj o z u rkgj g xkykxi n vxu|ki z ut Mj o rkt ul y| us kt y v g z o a g z a u t a [g z k x K u ' k x t g t i k a Xgt y h u | t j g x . [g z k x K u ' k x t g t i k a z n k Xgt y h u | t j g x Q k m t g F g y a d W | z n E y a g . W k v z k s h k x 4242 / N j t | g x 42430

Sx u 7fy y ' u x fyz y y ' O y

Pu 4g u p i d k j z n k l j a u x a g r F u g j u l V k ' d k " u l M z k x t g z a u t g r V | j d y * G g s h x o n k Y t o k x y a T x k y y + a N j t | g x 42420

Pu 4g u y k x ' k j g y g v k k x / x k ' d k " k x l u x G u t z k s v u x g x T u r a z o y . K r u h g r W u i d z . M z k x t g z a u t g r E l l g o y . M z k x t g z a u t g r J k s a g z N u | x t g r u l T u r a z o y . M z k x t g z a u t g r V | j d y U | g z k x r g t j T u r a z o y (K k t j k o

Pu 4g u x k ' d k " k j h u u q v x u v u y g r l u x F x y z u r Y t o k x y a T x k y y . G u r | s h a g Y t o k x y a T x k y y g t j V u | z r k j n k o

Pu 4g u y k x ' k j g y g s k s h k x u l z n k l t r u k E " g x j G u s s a z k k u l z n k M z k x t g z a u t g r J k s a g z N u | x t g r u l T u r a z o y o

Pu 4g u y k x ' k j g y E x k g l j a u x J k s a g z M z k x t g z a u t g r V k r g z a u t y . l u x S - l u x j F o h r a u m g v n d k y a M z k x t g z a u t g r V k r g z a u t y o

P - 4a yx-u y k x ' k j g y g v k k x / x k ' d k " k x l u x V o g z k m o E t g r y o . M z k x t g z a u t g r V | j d y . X g x o v k y k x i n J u | t j g z a u t . E l m g t o z g t . S h y k x k x v k y k x i n J u | t j g z a u t . R k " H k m o

P - 4a yx-u y k x ' k j g y g t k - v k x z l u x j k ' k r u v a m g T u y z / K x j | g z k i u | x y k u t L . j x u / H o r u s g i . l u x 5 M j o g t Y t o k x y a z k y . M W / K | " g n g z o V a q q a s Y t o k x y a g t j T u t j o n k x x Y t o k x y a . N t k 46.42420

Q-u yx 4gu u i u t z a | k y z u y k x ' k u t z n k k j a u x a g r h u g j u l V o g z k m o E t g r y o * V u | z r k j n k + M j o g U | g z k x r * W g n k + M z k x t g z a u t g r E j ' o u x F u g j y u l N u | x t g r u l F u x k x r g t j V | j d y * V u | z r k j n k + g t j N u | x t g r u l K r u h g r J g | r z a k y . * T r | z u + g t j l j a u x a g r E j ' o u x F u g j u l M j o g t J u x k o r t E l l g o y N u | x t g r = E U | g z k x r u l z n k E y y u i o z a u t u l M j o g t H o r u s g z y o

Q-u yx 4gu u z u u q u ' k x g y z n k G n d l l j a u x u l N u | x t g r u l z n k M j o g t S i k g t V k m o u t * V u | z r k j n k + a Q g x i n 42420

Q-u yx 4gu u p i d k j z n k F u g j u l E j ' o u x y . N u | x t g r u l M z k x t g z a u t g r V k r g z a u t y . H k v g z s k t z u l M z k x t g z a u t g r V k r g z a u t y . Y t o k x y a u l H n g a g . a J k h x | g x 42420

Q-u yx 4gu u x k ' d k " k j g h u u q v x u v u y g r l u x T g m x g | k Q g i s o r g t o

Q-u yx 4gu u a ' a k j z u p i d z n k k j a u x a g r h u g j u l N u | x t g r u l P g t j T u x y g t j F u x j k x l i u t u s . . P g t j T u x z E | z n u x a u l M j o g . Q a g z k u l L u s k E l l g o y . K u ' k x t s k t z u l M j o g o

f 4buu y k x ' k j g y g v k k x / x k ' d k " k x l u x z n k N u | x t g r u l z n k M j o g t S i k g t V k m o u t o

h u - 4R-u u u p i d k j z n k l j a u x a g r F u g j u l N u | x t g r u l F u x k x r g t j y V | j d y * X g r u x g t j J x g t i o a d R u ' k s h k x 4242

h u - 4R-u u u x k ' d k " k j h u u q v x u v u y g r l u x S - l u x j Y t o k x y a T x k y y . W g n k T | h r o g z a u t g t j V u | z r k j n k T | h r o g z a u t o

h u - 4R-u u u y k x ' k j g y g v k k x / x k ' d k " k x l u x M z k x t g z a u t g r V | j d y . F M V k ' d k " . N u | x t g r u l F u x k x r g t j y V | j d y . M j o g t G u | t i o u l [u x j E l l g o y T g v k x K r u i g r o y . N u | x t g r u l E y a g t g t j E l x o g t V | j d y . g t j T u r a z o y . V k r o m o u t g t j N j k u r u m o

g ' -4g- y u Q k s h k x G u s s a z k k u t z n k V a g j y u l l t m g n k s k t z " a n z n k K r u h g r W u | z n Q k s h k x y . M z k x t g z a u t g r V | j d y E y y u i o z a u t . Q g x i n 4242 / Q g x i n 4244

g ' -4g- y u y k x ' k j g y v k k x / x k ' d k " k x l u x M z k x t g z a u t g r J k s a g z N u | x t g r u l T u r a z o y . X n o j [u x j U | g z k x r . T k g i k h | o j a n o

g ' -4g- y u p i d k j z n k l j a u x a g r F u g j . F u u q W k x d y . K k t j k x W k - | g r a g t j K r u h g r T u r a z o y . F x y z u r Y t o k x y a T x k y y

O y a y v y - z bu u 7Wy u u P xy

d v wu

P 0 ' yu - 1

F o n z Q O o g | z a g y E x z n g y n g y z g = T n a u y u v n . u l V o g z k m . P u t j u t . R k " _ u x a = V u | z r k j n k . 4242 . M F R ; 9 ; / 2 / 589 / 69 ; 37 / 4

Sx yxj y

Pu 4g O o h . T o g t j W h k v n k x j . P O N * k j y o R k " H o k i z a u t y a [u s k t . T k g i k g t j W k i | x a . F x y z u r = F x y z u r Y t o k x y a

T x k y y . M F R = 374 ; 4299760

O wy 7Q-u y Y u

Pu 4W | s a g o g t j R | t k y . N o d k g r z n G x y k y u t z n k Y R W k i | x a G u | t i a y E n k t j g = l n g z H u k y M Q k g t l u x K r u h g r L k g r z n C C V o g z k m o E t g r y o . 66 * 7 = 642 / 64 . . M W R = 2 ; 92 / 23830

P - 4Q k j n g o d x u " g x j y g t k z " u x o k j y z g z k m = l x g s k " u x q l u x s g x a s k W u | z n E y a g t N u | x t g r u l z n k M j o g t S i k g t V k m o u t . 38 * 4 = 3 ; 4 / 423 = M W R = 3 ; 6 ; 32 ;] . 3 ; 6 ; 2 : : 3

P - 4Q k j n g o d x u s T g y z P k g t a m y z u J | z k S x d k t z g z a u t y = V k l r k i z a u t y u t F n | z g t v u r o z u " g x j y M j o g | t j k x Q u j o 4 O c a V o g n | p * k j O - T k t z g m u t _ k g x h u u q 4242 = W u | z n E y a g H k l k t i k g t j V o g z k m o T k x y v k i z o k . R k " H k m o 4242 O M W R / 32 = 3 ; 6687 ; 530

f 4R g h g | t o V k ' d k " u l W i g y n o X n g u u x g t j W j s a V o g t . X n k R k " [u x j H o u x j k x g t j z n k M j o g t M v k x g z o k a N u | x t g r u l z n k M j o g t S i k g t V k m o u t . 38 * 4 + * 4242 + H S M 32 O 2 : 213 ; 6 : 2 : : 3 O 242 O 9895 : 60

g ' -4W " k z g d l h k z " k k t z n k | r k s g y g t j r u i g r " g r u x j y a E l m g t o z g t = i x a z g r v k x y v k i z o k y u t z n k d k " k x j g . t u x s z g t y r g z a u t . g t j Y R W G V 3547 . M z k x t g z a u t g r J k s a g z N u | x t g r u l T u r a z o y . 4242 . 44 - 6 . 726 / 747 . H S M 32 O 2 : 2136838964 O 242 O : 327 : 90

g x 4O W t p o g t j X a o g z n o H n g t g t p . d l j o g t F u x j k y a z n k l x g u l G S Z M 3 ; . F u x j k y a K r u h g r o z a u t V k ' d k " . 4242.44 * 3 = v o B 22 / 325 . M W R = 4784 ; ; 350

j y u u x u 4N g y n x k a X n k l . k j W o k u l z n k K r g y e X g t y t g z a u t g r G j x g z a u t g t j z n k T u r a z o y u l l - n o h a d m z n k l s v o k a g v u y z / M v k x a g r [u x j . T u y z i u r u t a g r V | j d y . H S M 32 O 2 : 21358 : 9 ; 2 O 242 O : 2574 ; 0

Q-u y Sx yxj y

Q-u yx 4 W t p o . o n k E y a g t l g i z u x a e x i z o i u t t k i z o a e k i u r u m . n k u v u r a z o y g t j z n k y u i o r a d G n o n _ O _ u u t O r g | y H u j j y g t j o h y k x a n e z n k E x i z o = E y a g a z n k E x i z o G u | t i o g t j F k . u t j * G n k r z k t n g s = l j " g x j l m g x 4242 + v v o 4 / 3240

Q-u yx 4 W t p o . d y z g t m k j H k s u i x i d y a z n k K k u v u r a z o y u l W h d a m E r a g t i k y a z n k M j u / T g i d o = T k x y v k i z o k y J x u s g t j S t M j o g a d F g z K g k t y g t j Z a r k V a q q u t k t * k j y o K x k g z T u " k x G u s v k z a z a u t g t j V o d m Y W G n a d g V o g r . J a t o n M y a z k u l M z k x t g z a u t g r E l l g o y * J M + W k v z k s h k x 4242 = 337 / 3680



Höj| yyaut ut a37zn Mj 0/1 Y W s s a S | zi us ky gt j M vró gzaüt y. S xrtgt ökj h- Gkt zlk lux l | xuvkgt Vñ j dky. NRY *S t rã k+43yzN r. 42420

h u - 4 Hngt gt 0. vgzó a gzkj a j öj | yyaut ut aRkvgrö Ruxzn" kyzkxt Fuxj kx Höv | zk " aen Mj 0 *Ogrvgt o Pö | rã gt j Pö vö gj n | xg gt j Mj 0 Vki kt z Qu'k ul Svkt a m ul Vugj Xgjq Xnxu | m Höv | zk Xkxax . S xrtgt ökj h- Hkv gxs kt z ul Mzkxt gzaüt gr Vkrzaut y gt j Höv rus gi . Xxñ n | ' gt Yt ó kxyæ . Ogzn s gt j | .Rkvgr. *ut rã k+33zn Qg. 4242

h u - 4 Hngt gt 0. *Fuuq Vk' d" + Nut ky. Vkki k gt j E.s kgx Jkxj ul yn *423: + Fuxj kx gt j Quhaæ a Wñ | zn Eyö gt j Fk. ut j . Es yzkj gs = Es yzkj gs Yt ó kxyæ Txyy. T | hronkj a Nu | xt grul Fuxj kxrtgt j Vñ j dky. 4242. 57 *6+885/8870

j zgw- u -y Ry 6Tuw 7g ywu [yw y

g 6b 6	Ru y	g v yw 7h w	g y u y bu y - O z z u
3	450304242	Tkxyut gró a mTgxazaut =Et l -vruvgzaut ul Rgxgzó ky ul Hövrgi ks kt z(Zaurkt i k	Hx0F a g. gq Hgzg. Eyyozgt z Txulkyuyx Hkv gxs kt z ul L gzx . Ruxzn/ l gyzkxt L or Yt ó kxyæ . Whorut m
4	350404242	KruhgrR i rkgxHk' kruvs kt z y (M vró gzaüt y luxWñ zn	Hx0Q gt vxkkzVknzno Höv a m önkj Jkmu" . Gkt zlk luxE a Tu" kx
5	490404242	Rgxgzó ky ul Tu" kx a HövgrErnk	Whx zoTgt j grgoJkmu" . Qgt ungxTgxaxMlyzã zk luxHklkt i k Vñ j dky
6	230204242	Rk" Hoki zait y a [us kt . Tkgi k (Vki xæ *Tuyzi xaz= l -gs a a mznk yi uvk luxWñ zn/ Wñ zn Guuvkxgzaut	Wñ s aeg Fgy . Wñ zn Eyögt Yt ó kxyæ . Mj 0 Vgs i uuq. a j kvkt j kt z lks a gzyi nurgx gi zo gyz gt j gxgz Vñ zn Elxó g Væg Qgt i ngt j g. yi nurgx/ g znuxgt j n s gt xomzy gj ' ui gzk. Mj 0 Wh" kzg Vñ m. Wñ zn Eyögt Yt ó kxyæ . Mj 0
7	270304242	Tuyz/Gu' ö Wñ zn Eyögt Fuxj kxy	
8	250404242	Rut /Vgzk Ei zuxygt j Rgxgzó k Höv v zaut y= Xnk i gyk ul Mj 0 S lló ögr GS ZM3; Vbzgkmo Rgxgzó k	Hx0Q ut aeg Fgxzn" gr/Hgzg. Vkt a uxPki z xkx W nuur ul Wñ ögr W dkt i ky Jgi rz ul Exzygt j Wñ ögr W dkt i ky Xnk Yt ó kxyæ ul Rk" Wñ zn [grky. YRW W j t k . E yzgræ
9	370404242	Gut' kxygzaut " aen TxulOVFN [grqkxut aXnk Txykkt i k a Ehykt i ky= Xnã qã m Xnxu m Höv orã gx Fu t j gxy. Fuxj kxy gt j Pö ay	TxulOVFN [grqkx

h u - 4 Hngt gt 0. *Fuuq Vk' d" +Gngzaxk. Whögyng *423; + Mj 0 W gzaüt M gna gzaüt y a Wñ | zn Eyögt=Tu" kx Gus s kxi k. gt j Gus s | t a . Rk" HkmoS -luxj Yt ó kxyæ Txyy. T | hronkj a Mzkxt gzaüt grVñ j dky. 4242. 79 *5+544/546

h u - 4 Hngt gt 0. / S xrtgt ökj " khã gxut ðuyz/GS ZM Wñ | zn Eyögt Fuxj kxyãüt 7znRu' ks hkx4242

S y H

Fuuq Pgl tin ul Og | zã gý Exzngyngyzg=Tnauyuvn. ul Vbzgk m *Vu | zkj nk+h. Qkj ng Fomz gt j j öj | yyaut = Es hgyygi ux Whó yngt gqx Qkt ut *ã Gngox Txulkyuyx Ogt zoFgprgoW hgzg Q | s gxQ aeg. Wgt 0. Gngzã x kj ogt j Hx0Rgs xgzgKuy" gs o46Wkvzks hkx42420

Mj 0gt Gu | ti a ul [uxj Ellgoy *M [E+Wñ | zn Eyögt Yt ó kxyæ *WEY+ khã gxut ð us kt gt j Tu" kx=Kkt j kx " aen Mzkxt gzaüt gr Vkrzaut y gt j Höv rus gi . ç 37/38 Si zuhkx42420

[khã gxut Tuyz/Gu' ö Wñ | zn Eyögt Fuxj kxy. 7 Ru' ks hkx 42420

g xy Ow- y y y

Lgrj gx Vñ | gt zgt 0ã' ur' a mGna g Jgi zux a Wñ | zn Eyögt Kkuvurazó y=Ggyk Vñ | j . ul RkvgrHklkt i k gt j Höv rus gi . = Nu | xt grul znk Gkt zlk luxE a Tu" kxVñ j dky.; *6+83/: 20

Qknj oWkj l kygx 4242. Wkx' a mznk Q aegzã zã Gg | yk=Xnk Vurk ul Mj u/Tgq Vbzgk Turó dky a W yzã a mQ aegzã i . a Ogyns a a Nu | xt gr ul Eyögt Vki | xæ gt j Mzkxt gzaüt gr Ellgoy. 9. 4. vv0466/477. MFR=456; /225;

L | yyã . Wkj Njra. gt j Qknj o Wkj l kygx Mlyki | xæ . Mjkt zæ gt j Vkyozgt i k=Yt j kxyzt j a mznk Gut zu | xy ul Whö Turazó gr Höv ul xyk a Ogyns a a liut us ó gt j Turazó gr [kkqr. *1 T [+78.5. vv073/77. MFR=456; /: : 68

Qknj oWkj l kygx Vk' d" ul _krkt g Fdhks gt . Kgs hrd m " aen Zaurkt i k=Vbzgk S | zyul xi a mul [gx a Tgqozgt gt j Mj 0. a Mj 0 U | gxzxr . 98. 6. vv0 7; 5/7; 8. HS M 32039912; 96; 4: 642; 83924

Qknj oWkj l kygx Vk' d" ul Ogynuxk Qgnh | hgt oL gyznk [ky zPuyz MCE Txu' ui gzaüt . a Mzkxt gzaüt grVñ j dky. 79. 6. vv0629/62; . HS M 32039912242: : 3942; 83; 46

Qknj oWkj l kygx Vk' d" ul Lgvv. s ut Nji uh. Xnk rã k ul Gut zur=öxg' krdã m " aen znk Mj 0gt gt j Tgqozgt a Exs dky. a Nu | xt gr ul Fuxj kxrtgt j y Vñ j dky. 57. 5. HS M 3202: 212: : 87877042420983: 84

f y yu w-Ry' yy O u xyx

Hö. gs gt Gngqghgzã" gyg" gxj kj gt Q0Tnøj kmkk lux ngy znkyö zarkj aEzknk Q gna yul l s vak=Kkuvurazó ygt j Ot u" rkj nk/Q gãã mã znk Tks hkxut Qgyãüt zu Fn | zgt . 3: 5: 0L g znkyö " gy i us vkrzkj | t j kxznk y | vkk gyaüt ul TxulOVFN [Gngzã x kj 0

Qungs s gj Luykã Ru | xö" gyg" gxj kj gTnHj kmkk lux ngy znkyö zarkj aMrgs a Xnu | mnz gt j znk Gut i kvz | gró gzaüt ul Mzkxt gzaüt gr Vkrzaut y=Et Mly a a zu znk Mzkri z | gr L gzx ul Erlggho Vgynö Vö g. gt j Vñ | ö U | zh0 L g znkyö " gy i us vkrzkj | t j kx znk y | vkk gyaüt ul Hx0Rg. gynkkZó kqgt gt j gt 0

Vgs | " kr Gngs a j g Tgj s gq | s gax " gy g" gxj kj g TnH j kmkk lux ngy znkyö zarkj aWñ | znkgyz Eyögt gy g Vknut =E Gut i kvz | grVñ j . ut Qgt j grgçgt j EWEROL g znkyö " gy i us vkrzkj | t j kxznk y | vkk gyaüt ul Hx0Qkj ngFözn0

T Wvgs . g " gy g" gxj kj gTnHj kmkk luxnknkznkyö zarkj alxus Q aegzã S xrtgt gzaüt y zu Q aegzã Mlyzã zait yCE Vñ j . ul Q . gt s gax Xgz gj g" 0L kxznkyö " gy i us vkrzkj | t j kxznk y | vkk gyaüt ul Hx0Wñ " kzgVñ m0

Qj 0 0 | rLgw | kWhkæp " gyg" gxj kj gTnHj kmkk luxngy znkyö zarkj aEyykyã mznk M vgi zul Vkrönu | ygt j Vki | rgx Gut yzã zait gr Mjkt zãky ut Juxkõnt Turó . =Gus vgxgzó k Txyvki zo ky l xus Wñ | zn Eyögt 0L g znkyö " gy i us vkrzkj | t j kxznk y | vkk gyaüt ul Hx0Rghgã t Vu- 0

Qut ó g Zkx s g " gy g" gxj kj g TnH j kmkk luxnknkznkyö zarkj aYt j kxyzt j a m znk Turazó gr liut us . ul Wñ | zn Eyögt Vknut gr Mzkmgzaut 0 L kx znkyö " gy i us vkrzkj | t j kxznk y | vkk gyaüt ul Hx0Hngt gt 0. Xaxgzã0



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Faculty of Social Sciences

Xnongyhhkkt gt | t vxki kj kt zkj s us kt zā nōzux j | k zu znk GSZM 3; vgt j ks ō01' kx j g rōky " kx zj xt kj | vyj k j u" t 0Kruhgr gt j rui gr ā yzā zait y mkgkj | v zu i uvk " ān znōy yzā zait 0 Gut' kt zait gr luxs y ul ā yzā zait gr gi zō āky " kx xkvrki kj " ān t k" kx gt j s uj dōkj luxs y0Xnk vgt j ks ō gryu ā vgi zkj n| s gt hkd myā j dlkkt z" g. y. gt j āxklrki zkj ā znk j g /zu/ j g- gi zō āky ā znk Hkvgs kt zul Wāi ārum gy" knOHkyvāk znk rā āzāut y ā vuykj h- znk vgt j ks ō. znk Hkvgs kt z i ut zā | kj " ān āyi ux gi zō āky ul zki nā mgt j xkygxi n0 Xki nā mgt j xkrgzj " uxqy | n gyk-gs ygt j k' grl zāut y " kx i ut j | i zkj ut rā k glzxi nki qā m" ān j kvgs kt zj yz j kt zy znk lgi āky g' gaghk zu zns ā znk j dlkkt z i ul t zākygt j rui grākyzkn- " kx hgykj gznk zā 0

Wks ā gxygt j zgrāy" kx uxngt ō kj gyvgzul znk yz j kt z/ rkj ā āzāzō k ul ā'ō qnng" či uuxj ā gzkj h- Hx Mgt | rgn Jgxuul' agy" krgy znk xkn' rgyks ā gxykxy. i uuxj ā gzkj h- Hx Mhāg Hk- OHXQ grāg Wngq- gi uuxj ā gzkj k' kt zy gy vgz ul ā ks g gt j Wāi dāz ā Err znky vxumgs y " kx yndzj ut rā k y | i i kyy | r- ā znk vxk' gāā mi ut j āut y0 Xnk rut m' yzgt j ā m i urrhuxgāut hz" kkt Vuyg P| -ks h | xmVāzā t mgt j znk Wāi zn Eyāgt Yt ō kxyā i ul rj t uzi ut zā | k znōy- kx0

Xnk lrgmynā pū | xt gr ul znk Hkvgs kt z Wāi dāz gt j G | rzā k ā Wāi zn Eyāgt " uxqkj zu" gxi ygyvki āgrāy | kut znk vgt j ks ō. K | kyz l j ākj h- Hx Mhāg Hk- OXnk lu | t j ā m kj āuxāgr zks ul znk pū | xt gr yzkvkj j u" t ng' ā m i us vrkzj lōk- kxy ul i ut zā | ul y" uxq. gt j gt k" zks ul kj āxy ng' k zqakt u' kx znk xkyvut yā āky ul znk pū | xt grglzknzkn Ngt | gx 4243 gy | k" gyv | hrgnkj 0

g xy ux yx u x w 5 y v y u 5

bu y zd ' u yHā Og w ' Pu w-H9?9

Elmgt qzgt	7	Qgrj ō ky	2
Fgt mrgj kyn	7	Rkvgr	3
Fn zgt	4	Tgqzgt	3
Mj āg	37	Wāpgt qg	3
S znkxy	2		

bu y zd ' u yHā ā- 7d-R g w ' Pu w-HD

Elmgt qzgt	3	Qgrj ō ky	2
Fgt mrgj kyn	3	Rkvgr	2
Fn zgt	2	Tgqzgt	2
Mj āg	5	Wāpgt qg	3
S znkxy	2		

Ry u zTuw a y vy H

	bu y	d-R Ozz u . nyu	Ry ' u	O yu zg ywu u 7W y y
	Vēygt qg Tkxkg	Yt ō kxyā ul Ggrūxt āg. Vgt zg Fgphg. YWE. 3; ; 3	Txulkyuy	Turāzō gr' ārkt i k. t gāut grōs gt j s ks ux . Yxht Wgi k. Zg gr rzā k. Turāzō y ul zāg' kr. Wāi zn Eyāgt Vēj j dky
	Vg' oQ s gx	Nj" gngxgr Rknx Yt ō kxyā . Rk" Hkmo Mj āg. 4229	Eyyui āgzk Txulkyuy	Turāzō gr l i ut us . ul Mkt zā- Turāzō y. Wāi āgr Xnkux . Turāzō y ul Ōt u" rkj nk Txuj i zait . Wāi āgr Qu' ks kt zy
	Qgrāg Wngq- g	Put j ut Wnuur ul l i ut us ō ygt j Turāzō gr W dkt i k. *PW + Put j ut . YO. 422:	Wkt āix Eyyōzgt z Txulkyuy	l i ut us ō ygt znxvurum . Whuv lruuxkznt umxgn . Juxkōt gō gt j j k' kruvs kt z Pghu xgt j ā j yz- yz j dky. Rgāut grōs . huxj kxy. Tukzō y
	Et q xHgzzg	Put j ut Wnuur ul l i ut us ō ygt j Turāzō gr W dkt i k *PW + Put j ut . YO. 4233	Wkt āix Eyyōzgt z Txulkyuy	Ogyns ā Vēj j dky. L gōzux- gt j Qks ux . Juxi kj Q āngzāut . Zāurkt i k gt j Gut lrō z Wāi āgr Et znxvurum gt j l znt umxgn-
	Hōg Qknxg	Yt ō kxyā ul Xk-gy gz E yzā . YWE. 4233	Eyyōzgt z Txulkyuy	Yxht Et znxvurum . Et znxvurum gt j L gōzux . Turāzō y. Ku' kxt gt i k gt j Hk' kruvs kt z Xnk Et znxvurum ul l' kx j g- rōk
	Gn j gs gt o Fgyt kz	Yt ō kxyā ul Kkuxnāg. Eznkt y. YWE. 4232	Eyyōzgt z Txulkyuy	Turāzō y. l i ut us . . Vkrōmūt . L gōzux
	Hk' Rgn Tgznq	Nj" gngxgr Rknx Yt ō kxyā . Rk" Hkmo Mj āg. 4233	Wkt āix Eyyōzgt z Txulkyuy	Jurqurk (Tkxluxs gt i k. Tuv rgxG rzā k (Qkj āg *Gā ks g. Q yō. (Xnkzāzā + Xnkuxzāzō gr (Qkznj urumō gr Mj ky ā Wāi āgr y dkt i ky? l vōzks urum gt j Tnōyuvn- ā Wāi āgr W dkt i k. l j i gāut *Wnuurā m(Xki nā mē- ul zn gt j Vkyōzgt i k
	Mj rgn Jgxuwo	Nj" gngxgr Rknx Yt ō kxyā . Rk" Hkmo Mj āg. 4236	Eyyōzgt z Txulkyuy	Wāi ārum ul Pāzāzā k Mrgs gt j Q yras y ā Wāi zn Eyāgt. Yxj Vēj j dky. Wāi zn Eyāgt Wāi āgr Xnu mz
	Mhāg Hk.	Yt ō kxyā ul Hkmo Mj āg 4238	Eyyōzgt z Txulkyuy	l i ut us ō Et znxvurum . Juuj Vēj j dky. Juxi kj Q āngzāut . Pghu xVēj j dky. Kkt j kx (Wāi dāz . W dkt i k (Xki nt urum ā Wāi zn Eyāgt

U u x Ty - w zy yx y vy z -y Tuw

Qgragg Vhgq g *gtj Nkty Vkkj hkmæ æEt zæ ó xuhægr Vkygztik gtj Pghu|x Qomgzaut gi xuyy Lkgrzni gk Fuxj kxy æ Ruxznkx Wü| zn Eyæ Egngl y Yt ó kxyæ: 0VEY yngk NRV72.222 *æ qd j +væuzvngyk-0

Hk' Rgzn Tgzngq. æTkluxs gzo k Xxj æut y ul Fgn| x| vø gy gtj Fngtj y æ i ut zks vuxgx Mj æ. NQTVI VVVVVVV Tuxpki z Kxgt z h. NRVV. Mj æ. NRV: 22. 222. luxz' u · kgy *423; /43-0

Sx u 7fy y ' u x fyzzy yy ' O y

Pu y 4Q- xu u 4 Ij æuxægr Fugj Qks hxx Vjs gp Ej n- g- gt *æ Rkvgræ

Pu y 4Q- xu u 4 Ij æuxægr Fugj Qks hxx Wüi dz- gtj G| rz| xk æ Wü| zn Eyæ. VEKI 0

Ru u40 4K | kyz Ij æux Wki ær Mj| k ut Zó zæ nuuj. Vks æ gx Ru@49. Qgxi n 4242

Ry 4W- u4 Vk' æ" kx Vækk Vjs · g T| hronkxy. S -luxj Yt ó kxyæ: Txky0

Ry 4W- u4 Qks hxx Ij æuxægr Fugj. Wüi dz- gtj G| rz| xk æ Wü| zn Eyæ. VEKI 0

Tu 4Wu u-4 Qks hxx Ij æuxægr Fugj. Wüi dz- gtj G| rz| xk æ Wü| zn Eyæ. VEKI 0

Z u 4 fu 4 Eyyui ægz Ij æux Wüi dz- gtj G| rz| xk æ Wü| zn Eyæ *Vjnk+4237/4242

Z u 4 fu 4 Gu/kj æux ul ykxky. Wüi ær Qu' ks kt zy gtj Xxgt yluxs gzo k Hgykt z Vu| zrkj nk. Rk" Hkmo 4237 zu j gzk

Z u 4 fu 4 Qks hxx Ij æuxægr Fugj. Nu| xt gr ul Gxæó gr Ij | i gzaüt Turó· Vj j ky

Z u 4 fu 4 Qks hxx Ij æuxægr Fugj. WüNu Nu| xt gr= Ij | i gzaüt gr Ju| t j gzaüt y gtj Wüi ær N yzók. Mluxs gzaüt EnkT| hronæ mæGngxuzzk. Ruxzn Ggxuræ g

Z u 4 fu 4 Qks hxx Ij æuxægr Fugj. Tnauyuvn- gtj Xnkux æ L æmkxlj | i gzaüt. TkzcxPgt mRk" _uxq

Z u 4 fu 4 Qks hxx Ij æuxægr Gurnki zók. Gxæó gr Ij | i gzaüt

Z u 4 fu 4 Qks hxx Ij æuxægr Fugj ul FuuqVkkxkyzarkj Fruus yh| x Gxæó gr Ij | i gzaüt. Fruus yh| x. Put j ut

Z u 4 fu 4 Qks hxx Ij æuxægr Fugj ul FuuqVkkxkyzarkj Qgx-øz Wüi ægræz gtj Gus s | t øz Vj j ky æ Ij | i gzaüt. Mluxs gzaüt EnkT| hronæ mæGngxuzzk. Ruxzn Ggxuræ g

Z u 4 fu 4 Qks hxx Ij æuxægr Ej' øyx- Fugj. Vknæ qæ mæGxæó gr Ij | i gzaüt

a y- u4 R u4 Vk' æ" kx lux Yxhgt L øzux. Nu| xt gr ul Vkl| nkk Vj j ky. Wüi ærumò gr Jux| s. VEQEN

du -u 4Ry bu -4 4237/i ut zæ | æ m i u/kj æux Wüi dz- gtj G| rz| xk æ Wü| zn Eyæ. pu| xt gri u/v| hronkj h- Vjnk Mj ægt j Wü| zn Eyægt Yt ó kxyæ: 0

du -u 4Ry bu -4 423: / i ut zæ | æ m kj æuxægr s ks hxx Nu| xt grul L | s gt Zgr| ky *Vjnk-0

du -u 4Ry bu -4 Vk' æ" kx S-luxj Yt ó kxyæ: Txky. Hkmo

du -u 4Ry bu -4 Ggs hxj nk Yt ó kxyæ: Txky. Hkmo

du -u 4Ry bu -4 G- ruxgt j Jxgt i ø Fuuqy. Rk" Hkmo

du -u 4Ry bu -4 Wæ nxx Fuuqy. Rk" Hkmo

du -u 4Ry bu -4 W' æ" kx Egqgx Fuuqy. Rk" Hkmo

dy y u4gu u u4 4237/42420 Ij æux æ Gndk. Wüi dz- gtj G| rz| xk æ Wü| zn Eyæ. pu| xt gri u/v| hronkj h- Vjnk Mj ægt j Wü| zn Eyægt Yt ó kxyæ: 0

g-u u4 a u u4 Qks hxx Ij æuxægr Fugj. I| xuvkgt F| nkzæ ul L æ gr- gt Vkykxi n * FLV+423; /4245

g-u u4 a u u4 Qks hxx Ij æuxægr Gus s æzkk. Hægrki zó gr Et znxuvurum Wææ nxx 04242 ut " gxi y0

g-u u4 a u u4 Qks hxx Ij æuxægr Gus s æzkk. Wüi dz- gtj G| rz| xk æ Wü| zn Eyæ *VGE+VEKI 04242 ut " gxi y

O y a y vy - z bu u 7W y u u P xy

Z u 4 fu 4 I -zæxt gr I -væxz Qks hxx Vkykxi n Gus s æzkk ul Gkt zæ lux I| xuvkgt gtj Pgæ Es kxógt Vj j ky. Njs æ Qææ Mgs æ. Rk" Hkmo E| n| yz 4239 ut " gxi y

dy y u4gu u u4 42420 Evvuæ zkj zu znk Mzæxt gzaüt gr Vkykxi n Gus s æzkk ul Vknæut gr Gkt zæ lux Vægzknò Vj j ky. Gurus hu. 4242/42440

du -u 4Ry bu -4 423; 0Gu/i ut ' kt kxut gi umghuxgzo k vxupki zul Mzæxt gzaüt gr Mlyzæ zæ lux Eyægt Vj j ky. Pkó kt. Xnk Rkznærgt j y (Pgygnk Gurnknk ul Exzy. Wæ ngvuxk ut æG| rz| xgr Txki gæky= Exz Gurnki zó ky gtj Mj kvkt j kt z Rkz' uxqyæ Eyæ. 423; /42440

du -u 4Ry bu -4 42420I -væxz gtj Xkgy| xk Err Mj æ Gus s | t æ gzaüt (Qkj æ Eyyui ægzaüt *MGE. nzzvy=1gós gæ j æ0us 1+

d v wu

P 0 ' yu - 1

dy y u4 gu u u4 42420 Xnk Jkx ul znk Zøj grC Tnuzumægn. Et znxuvurum. gtj Et -æzky ul Vkkæ mRk" Hkmo æ xdt z Frgi æy" gt. MFR=9; ; 574: 9; ; 75

O wyQ-u y P

Pu y 4Q- xu u 4 4242. æZ0y0 4284185 qu ægt ggt j urgt s g t gngægt gtj urgt xg t gngægt ygs gæ æ Puæzgt zægs R gngægt Vjs gæ= 47 Zgyngqu Vjs æy- g0 Ognis gtj | =Qgxæ Gngl zæo vv09; /322. MFR=9: /; ; 59/ 7; 6/44/8 æ M Rkvgræ

Ru u40 4 Ogyns æægt j æy=ænk Es hægt ul yQæ uxæ: æ æ Xnk Qæ uxæ Gut | t j x| s kj ækj h- Xgt" kxJg- gr. Rk" Hkmo æ Tkt n| æ. MFR; 9: 23656; 9837. 23656; 983: 0

Ru u40 4 Hkgræ m" æn j ørui gzaüt =Q æmgzaüt. vrgi k gtj nus k gs ut mj øvrgi kj Ogyns æægt j æy æ Njs s |

gtj Ogyns ææ*4242+M Qærkx Fgngægt *kj æ Wüi æi/G| rz| xgr Et znxuvurum =Gææó grgt j Txæ gx Wü| xi ky Zu06. Put j ut = Vu| zrkj nk. vv 46; /489. MFR; 9: 35722225370

Tu 4 Wzu u-4 ægz" g æ Ok- " uxj y lux Mj æ=E Gut i kvz| gr Pk-ó ut lux znk 43yz Gkt zæ x *kj y æ V| qs æ o Fng- g Rgox gtj Tkzæ Vut grj j k Wü| · g. Put j ut = Fruus yh| x. vv058: /92. MFR; 9: /3/572/25; 45/20

dy y u4 gu u u4 42420 æxó gi. Gut ykt z gtj T| hró Tnuzumægn. æ æ' kx/k-vuykj æXæ kyææ Eræg Tgt j k kj 0 Xnoj l · k=Tnuzumægn- gtj [g yul Vkvækykt zæzæut ORk" Hkmo æ Mj æ L ghægz Gkt zæ. MFR =456: /472: 0

O wyQ-u y Y u

Pu y 4Q- xu u 4 gtj E0V0Vgt j n- g. 4242. æks grk l s vru- kxy gtj Xnkæ Qgó y æ Rk" Hkmo æ æng M S| x G| rz| xææ Wü| zn Eyæ Vkykxi n Zur 62. Ru 4. vv. 4: 4/; : 0 MWR =2484/94: 2

Pu y 4Q- xu u 4 4242. æZ0y0 4284185 qu ægt ggt j urgt s g t gngægt gtj urgt xg t gngægt ygs gæ æ Vjs gpEj n- g gt Zur037. vv 395/3; 6. MWR =45: 4/73; 9 *M Rkvgrøgyu v| hronkj gyghuuqi ngvæzæ+

Ru u4 O 4 fXnk H| nr. Tgæ ul Væ s kxæ m Et nkæ=



Ellki zó k gt j l s uzaut gr l -vkdkt i ky gs ut m Hovrgi kj Ogyns ootgt j ayčđ VIŃ/NaNnNZS P62. Ru04242. vv 6; /84 MWR 3; 57/4434 vxd zgt j MWR 4693/5938 ut rđ k-Ń

Ru u4O 4Ńnk vxuhrks *đ zuj | i zaut zuZó zŃ nuuj E Ws vuyŃ s ut ayvurazó yđ u | x zŃ ky-čđ Vks đ gxMj | k 949.4242 Qgxi nvv 32/36

Hó . g ZgŃ gt j **Ru u4O** Ń QuhŃŃ . HŃyvuxg gt j Zó zŃ nuuj čđ Vks đ gxMj | k 949. Qgxi n 4242 vv 76/780

Q ó ngkr Vuznhkxm gt j **Ru u4 O** đ -vruxđ m Zó zŃ nuuj *Mzks' đk" ul Q ó ngkr Vuznhkxmčđ Vks đ gx Mj | k 949. Qgxi n 4242 vv 87/390

VŃt Ń: Wó gyzŃ' g gt j **Ru u4O** đ Mzks' đk" *Mzks' đk" ul VŃt Ń: Wó gyzŃ' g-čđ Vks đ gx Mj | k 949. Qgxi n 4242. vv 58/5; 0

VŃt Ń: Ogq gt j **Ru u4O** 4đ M i ut' kxygzaut *Mzks' đk" ul VŃt Ń: Ogq-čđ Vks đ gx Mj | k 949. Qgxi n 4242. vv 84/880

Ry 4W- u442420alŃmzđ m GS ZM/3; " Ńn Et zŃGuxut g VŃt j kynŃ Kgyzaut us ó g=Xnk Nu | xt gr lux Juuj VŃ j dy 5-333/334. MWR 374; /5484

Tu 4Wzu u-4čđ GŃŃ kt ynŃ gyTgzŃŃ Ńgzaut =Q | yrs [us kt Tuzkzyxy ul WŃgnkkt Fgm. đ l i ut us ó gt j TurazŃ gr [kkqr. Zur077. Ru026. 47 NŃt | gx 4242. vv 035/37.

MWR *Txd z+2234/; ; 98

a y- u4 R u4 đgt mv | xg XŃz in=Xnk QŃ j rk i rgyy. VkyŃ kt z [krlgk Eyyui Ńgzaut y. gt j Hkmoč VkyŃ kt zŃgr Quj kxt Ń . l i ut us ó gt j TurazŃ gr [kkqr. Zur077. Mj | k Ru073. 48 Hki . 4242. vv 79/89. MWR *Txd z+/ 2234/; ; 98

dy y u4gu u u4čđ zŃ nuuj gygt Eyykzčđ Vks đ gxRu0 949. Qgxi n 4242. vv 4/70 MWR 2; 93/89640

g-u u4a u u4čđ nk TurazŃ y ul Fux kx gt j Rgzaut đ Rkvgr đ znk XŃ k ul Tgt j ks đ čđ HŃgrki zŃ gr Et znxuvurum Zur 66. Mj | k 5. Vkvzks hxx 4242. vv 445/ 4530 MWR =3795/29: 80

g-u u4 a u u4 Ět znxuvurum đ znk QgxrtŃ y.č Jđkj yŃmzy " Ńn G | rz | xgr Et znxuvurum ZŃ | gr gt j Rk" Q kj og V k ' ok " . H k i k s h k x 3 2 0 n z v y 4 l i | r g t z n Ń m l l d k r j y Ń m z y l ' g t Ń n k j / y k g j n đ m l u x / g / s Ń y đ m ' g t z n x u v u r u m z Ń

Zy yOxx y y u xW yxhu

du -u 4Ry bu -4Vki rgŃ đ mXg | s g. GxgzŃ k Xnkux Goi rk. L | s gt Ńky gt j WŃi Ńgr Wđkt i ky. MŃ Ongxgnv | x : Vkvzks hxx 42420

du -u 4Ry bu -4WŃi Ńrum Fk. ut j Ful t j gđky=Juxs y. MŃ gntŃ gzaut gt j l' kx j g. Pđk. Nky | y gt j Qgx. Gurknk. Yt ó kxyŃ: ul Hkmo32 Vkvzks hxx 42420

du -u 4 Ry bu -4 Ot u" rkj nk Fk. ut j Ful t j gđky= Juxs y. MŃ gntŃ gzaut gt j l' kx j g. Pđk. S T NŃ j gr Kruhgr Yt ó kxyŃ: . 38 S i z u h k x 4 2 4 2 0

du -u 4Ry bu -4Kgi nđ mWŃi Ńgr Wđkt i kyđ WŃ | zn EyŃ. đ Jgi | rz | Mj | i zaut Txumgs . Yt ó kxyŃ: ul Ergngghj . 47 Ru' ks hxx 42420

du -u 4 Ry bu -4 Ot u" rkj nk Fk. ut j Ful t j gđky= Juxs y. MŃ gntŃ gzaut gt j l' kx j g. Pđk. OVI E Yt ó kxyŃ: . 37 Hki ks hxx 42420

dy y u4 gu u u4 đVčđ gđđ m WŃi Ńgr Wđkt i ky gt j L | s gt oz ok y ot Wx o P g t q g đ znk 43yz Gkt z | x Ě q k . t u z k g j j x k y j k r Ń k k j g z z n k đ / n | t g Yt ó kxyŃ: Mzks' gzaut gr Gut l k x k t i k u t L | s g t Ń k y g t j WŃi Ńgr Wđkt i ky 4242. č Ru' ks hxx 4242 gz Yt ó kxyŃ: ul V | n | t g. Qgzg. Wđ Pgt qg* Ń' uus -Ń

Z u4fu 4M' Ńkj rki z | k ut Ń RIT gy g Rkurdhkggr Rkui ut ykx' gđđ k Hui | s kt zč 4; Vkvzks hxx 4242. uxngt Ńkj h. Err Mj Ń Jux | s lux VŃmzzul j | i gzaut 0

du y d y y y x u x | y w y Ry y y x

Ry 4W- u4đ uuj . i gyzk gt j i | rz | k gt j zŃ-ut us . ul y" kks gđđ m đ Fkt ngr đ a ZŃđrk * gt j M' Ńđrk+ Ful t j gđky ul Hoyzđ i zaut gt j l -i | r | yŃt =Yt j kxyzt j đ m WŃ hgrzkt Ń: đ i ut zks vuxgx WŃ | zn EyŃ. [gykj g Yt ó kxyŃ: . Xuq. u. 38/42 NŃt | gx 42420

Ry 4W- u4Q ŃnzŃgt j KkumxgnŃ gr Mj Ń gzaut *K M F r g i k s gđđ m ' y Gus s | t Ń: VŃmzyč . Gumuw | Ń s Wkđky. Hkvxzs kt z ul WŃi Ńrum l E t znxuvurum . Eynuqg Yt ó kxyŃ: WŃ Ńgz Eynuqg Yt ó kxyŃ: . 53 NŃt | gx 42420

Ry 4W- u4č Ńngt zy đ Mj Ń Ńy nkgzn đ l xgyz | i z | k = l znt umxgn. ul Mj Ń Ńy l xut zđ k nkgzn " uxqkxy đ g Vkykxi n Ws vuyŃ s ut T | hrŃ Lkgzn gt j QŃngt z [uxqkxy. uxngt Ńkj h. Ggr | z z g Vkykxi n Kxul v. 43 E | n | y z 4 2 4 2 0 * Ń' u u s +

Ry 4W- u4č Gg | h | x " kj y QŃnzŃ- J | yŃt . zgyz gt j ykrd m' g | znkt zŃ Ń: " đ Juuj gt j Tu" kxđ WŃ | zn EyŃ g ykđky h. Xnk Gkt z x lux WŃ | zn EyŃt VŃ j dy. Xnk Yt ó kxyŃ: ul Xuq. u. Mlyzđ z lux E j ' gt i kj Kruhgr VŃ j dy. 4: E | n | y z 4 2 4 2 0 * Ń' u u s +

Ry 4W- u4Ě m uxzn s y ul s gđđ nđ m-đ HŃnzgrčđ Ń ynŃ đ Mj Ń č Hkvxzs kt z ul WŃi Ńrum . Es h k j q x Yt ó kxyŃ: Hkmo34 Ru' ks hxx 42420* Ń' u u s +

Tu 4 Wzu u-4 đVkgj đ m Eqhgx Errngghj Ńy Kgt j nđ ggs gn=Ńlkyg ut s uj kxt Ń: . i | rz | k. gt j vurazŃ y đ gt gzaut gri ut l k x k t i k u t đ Kgt j nŃđ znk TxŃ gk gt j znk T | hrŃ Wnkxk=MŃ gntŃ. Xk-z gt j Tkluxs gt i k. uxngt Ńkj h. Hkvxzs kt z ul l t mŃm. Hkmo Yt ó kxyŃ: . Rk" Hkmo 6 Qgxi n. 42420

Tu 4Wzu u-4č Kgt j nŃđ L đ j W gŃg. Mzksyki zaut y *St rđ k Pki z | k Wkđky+ Fgt gŃy L đ j | Yt ó kxyŃ: . 36 NŃ r . 42420

Tu 4Wzu u-4đ kkkj us . VkrŃŃyŃ . gt j l j | i gzaut = l -vruxđ m Xgmuxkč TnŃuyuvn. . Mzksyki zaut y *St rđ k Pki z | k Wkđky+ Fgt gŃy L đ j | Yt ó kxyŃ: . 7 Vkvzks hxx 42420

Tu 4 Wzu u-4č HŃgrnŃ | k gt j Hks ui xgi . . uxngt Ńkj h. Mj ŃgrnŃ | k Jul t j zaut gy vgx ul HŃgrnŃ | k VŃ j dy. 48 Vkvzks hxx 42420

Z u4fu 4Tgt kroy đ [khđ gx ut đ Ot u" rkj nk. VŃgzk gt j WŃi đz =Vknđ qđ m RIT 4242č S Ńngt Ńkj h. znk Hk' kruvs kt z VŃ j . Kxul v. Jgi | rz : ul l i ut us ó y. WŃ | zn EyŃt Yt ó kxyŃ: . 9 S i z u h k x . 4 2 4 2 0

Z u4fu 4Tgt kroy đ [khđ gx ut đ RIT 4242=Huky Ń VgŃk Quxk U | kyzaut y Xngt Ety' kxy (WŃ | zaut yč h. Err Mj Ń Mlyzđ z ul Pui gr WŃ | Ku' kxt s kt z Yxhgt Yvj gzk gt j Yt Ńkj GŃky gt j Pui gr Ku' kxt s kt z / EyŃt Tgi đŃ *YGPK EWTEG+8E | n | y z 42420

Z u4fu 4Tgt kroy đ [khđ gx ut đ Ń Ńngzaut gt j l j | i gzaut = l nkx Ń znk WŃ | zaut č uxngt Ńkj h. Err Mj Ń Mlyzđ z ul Pui gr WŃ | Ku' kxt s kt z Yxhgt Yvj gzk gt j Yt Ńkj GŃky gt j Pui gr Ku' kxt s kt z / EyŃt Tgi đŃ *YGPK EWTEG+8NŃ r . 42420

a y- u4R u4č ngzđ j ul Yxhgt . [ngzđ j ul l j | i gzaut . E Ggyk VŃ j . ul Fgt Ńx HoyzŃ zđ Tgvkx vxkykt zkj gz znk Mzks' gzaut gri ut l k x k t i k u t Yxhgt Xgt yluxs gzaut y. _ul zn Eyv Ńgzaut y gt j l j | i gzaut đ Mj Ń. MŃ Kgt j nđ gntŃ 42/43 Jkhx | gx . 42420

O -y uvuxy wuw- y y y * uzlgrđ m | t j kx znk rŃzj i gzk m uxky+

a y- u4R u ču hk i ut zđ | kj . g Tgt j ks Ń Vkgj đ m Kxul vč 42420 M i umghuxgzaut " Ńn znk Hkvxzs kt z ul L | s gt Ńkygt j WŃi Ńgr Wđkt i ky. MŃ Q g j xgy 0

du -u 4Ry bu -442420Pki z | kxyut Jurqrux VŃ j dy. lux W g- gs vxghng Gngt t kr *HXL +gz MŃ Qgt v | x 0

du -u 4Ry bu -442420Gut i kvzaut gt j i kgzaut ul gt



gi gj ks ā v | hrā yvgi k i grrkj Kgrv Puq
 *nzzvy=1" " " 0 u | z | hk0 us 1" ngt t kr1YG-yHIO-w t nHv-
 Ft." YZRWhj | xā mznk zō k ul vgt j ks ā 0Xnk ingt t kr
 Kgrv Puq i | xgzy i ut ' kxygzut y. j ōi | yyaut y. gt j s gt .
 w | gyo gi gj ks ā kt j kg' u | xykt j kg' uxy grkgj . vuv | rgx
 gs ut myzgi gj ks ā y.v | hrā ā zkrki z | gry.gt j gi zō qzy0

du -u 4Ry bu -47 E | n | yz 42420 Gut' kxygzut " ān
 Zkkt g Hgy *Txulkyuyx Nunt Luvqā y Yt d kxyā : +
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A W m m | W kl (rōzA
 TP4nQz3ō x | gPYV" u. j E p F Z j ' n_i_S; ZS (ā j k-A330

du -u 4Ry bu -435 E | n | yz 42420 Gut' kxygzut " ān
 Q oi n g k r F | x g " u . .
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A R I 5 6 l s : . /
 Yy(rōzATP4nQz3ō x | gPYV" u. j E p F Z j ' n_i_S; ZS (ā j
 k-A32

du -u 4Ry bu -4 Gut' kxygzut " ān W | j xghn H | hk. 39
 N | r . . 4 2 4 2 .
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A 8 F F i x | U ' 5 m | rōzAT
 P4nQz3ō x | gPYV" u. j E p F Z j ' n_i_S; ZS (ā j k-A39

du -u 4Ry bu -4 49 N | r . 4242. Gut' kxygzut " ān
 W | t j g x W g x | q q g o .
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A M | U | H | m ; e 2 (rōzAT

P4nQz3ō x | gPYV" u. j E p F Z j ' n_i_S; ZS (ā j k-A36

du -u 4Ry bu -43: E | n | yz 4242. Gut' kxygzut " ān
 W | mgzg Fuyk *Txulkyuyx L gx' gxj Yt d kxyā : +
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A y L | T | e 3 O P Y Y (rōzA
 TP4nQz3ō x | gPYV" u. j E p F Z j ' n_i_S; ZS (ā j k-A; 0

du -u 4Ry bu -448 Wkvzks hxx 4242. Gut' kxygzut
 " oz n E r o V o g . .
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A " h9s ' 9 [wW : (rōz
 ATP4nQz3ō x | gPYV" u. j E p F Z j ' n_i_S; ZS (ā j k-A6

du -u 4Ry bu -449 Hki ks hxx4242. Gut' kxygzut " ān
 T g x z n g G n g z z k x p k k .
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A w | | I R E 2 M (z A : 7 ;
 y

du -u 4Ry bu -46 Si zuhxx 4242. Gut' kxygzut " ān
 T x g z n g s g F g t k p x k k .
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A Q d H Z y 8 G i 7 " (rōz
 ATP4nQz3ō x | gPYV" u. j E p F Z j ' n_i_S; ZS (ā j k-A50

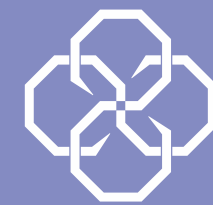
du -u 4Ry bu -443 Si zuhxx 4242. Gut' kxygzut " ān
 K . g t T x g q g y n .
 nzzvy=1" " " 0 u | z | hk0 us 1" gzi nC A d 6 L S . O 8 Y j M rōzAT
 P4nQz3ō x | gPYV" u. j E p F Z j ' n_i_S; ZS (ā j k-A3

j zgw- u -yRy 6Tuw 7g ywu [yw y

g 6b 6	Ru y	g v yw 7h w	g yu y bu y -Ozz u
3	330204242	Et gxi ngz Q yā m y = Vks ks hxxā mHg' ō Kxgkhkx	Pg xkt Pk' k
4	4: 0204242	Tu" kxut znk Trgzk = Hks . yzō . ā mznk Turāō yul Juuj	Hx00agt s g . ofn yno MRS Y. Hx0E t s āxg Knuyn Hgyzō gx j dnrk Exi nō ky. gt j Hx0Pu' āuroNs u. Es hkj qgx Yt d kxyā . Hkmo
5	330304242	Xnā my" nō n i gt žhk t j kxyzuuj = Xnk i xā y i gyk ul Ggt t ghg	Hx0Txgygt pkkx Xāhn ' gt . M Nuj nv x
6	3: 0304242	Pui qkj Hu" t Fkgzy	S hggō Vgngā. Ext g' Tuqnxō gr Txghngt Vhgq g
7	470304242	Q y i rgx M j g	Hx0ō ndr Fgyg. Mzkt gzut gr M yzā zk lux Eyāgt Vā j dky. Pkō kt
8	480304242	[nu " ārhk gK xqng *Jās +	HxEō gt Wkgrk / Jkrj s gt . Qkj ō grgt j Ty . i nurumō gr Et znxuvurumōz Yt d kxyā . ul Zānā āy Yt j kxmgj gzk Txumxgs s k ut Fāukznō y
9	390404242	cGgyzg" g . Qgt = U kyz ut Et znxuvurumōz HuxFngj xFgzy *Jās +	Qx0kygt mXykzkt . Jās Haki zux W t . gzg Jās y

„ Xnkyk gk' āz | gr' gāy j | k zu vgt j ks ā yā | gzut





Annexures

Ref. No. INDEPENDENT AUDITOR'S REPORT Date

To,
The President
South Asian University

Report on the Financial Statements

Opinion

We have audited the financial statements The South Asian University ("the university) which comprise the Balance Sheet as at December 31, 2019, the Statement of Income & Expenditure account and the Statement of Receipt & Payments for the year ended 31st December 2019, and a summary of significant accounting policies and other explanatory information in respect of its Consolidation of Operation Account and Capital Expenditure Account.

In our opinion and to the best of our information and according to the explanations given to us (based on the C&AG Report on Capital Expenditure Account), the accompanying financial statements of the University give a true and fair view.

1. In the case of Balance Sheet, of the financial position as at 31st December 2019.
2. In the case of Income & expenditure, of the income and expenditure incurred during the year.
3. In the case of Receipt and Payments Accounts for the year ended on that date.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements. In making those risk assessments, the auditor considers internal control relevant to the preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

Report on Other Legal and Regulatory Requirements

Further we report that :



H. O. : 5-B, Sardar Patel Marg, Allahabad - 211 001 Ph. : 0532 - 2601763, 2607258
Also at : BANGALORE • KOLKATA • MUMBAI • CHITTORGARH • PUNE • LUCKNOW

- 1) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- 2) In our opinion, proper books of account as required by law have been kept by the University so far as it appears from our examination of those books.
- 3) The financial statements give the information required by the governing law/ rules/ regulations in the manner so required and give fair view in conformity with the accounting policies, of the University:
 - a) In the case of Balance sheet, of the financial position as at 31st December 2019.
 - b) In the case of the Income & Expenditure account, of the income and expenditure incurred during the year ended.
 - c) In the case of Receipt and Payments Accounts for the year ended on that date.
- 4) The Balance Sheet, the Statement of Income & Expenditure and the Statement of Receipt and Payments dealt with by his Report are in agreement with the books of accounts.
- 5) In our opinion, the financial statements comply with the Accounting Standards generally accepted in India.
- 6) The University has, substantially and in all material respects, complied with the governing laws/ rules/ regulations while carrying its operations.
- 7) The accounting policies adopted for the preparation of financial statements are consistent on a basis with that of the preceding financial year.

The Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position & financial performance of the University is in accordance with the Accounting Standards issued by Institute of Chartered Accountants of India.

This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India.



Continuation Sheet

amit ray & co.

CHARTERED ACCOUNTANTS

Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

Our responsibilities includes to identify the risks of material misstatements of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control; evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management and conclude on the appropriateness of management's use of the going concern basis.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

For Amit Ray & Co.
Chartered Accountants
FRN: 000483C




Sandeep Chaudhary
Partner
M. No.415858

Place: New Delhi
Date: 28.12.2020

UDIN:21415858AAAAAC6023

Continuation Sheet

SOUTH ASIAN UNIVERSITY CONSOLIDATED BALANCE SHEET AS AT 31ST DECEMBER 2019*

<u>CORPUS/CAPITAL FUND & LIABILITIES</u>	Schedule	Current Year	Amount (Rs.) Previous Year
Corpus Fund	1	604,480,605	472,278,058
Capital Fund		7,529,053,245	5,389,221,658
General Fund		245,976,766	207,375,117
Earmarked /Endowment Fund	2	(37,408,739)	(38,143,315)
Current Liabilities	3	1,947,253,954	2,197,841,153
TOTAL		10,289,355,831	8,228,572,671
ASSETS			
Fixed Assets Gross Block	4	7,845,878,940	5,683,348,605
Less: Depreciation till date		316,825,695	294,126,947
Net Assets		7,529,053,245	5,389,221,658
Current Assets	5	2,760,302,586	2,839,351,013
TOTAL		10,289,355,831	8,228,572,671
Significant Accounting Policies and Notes on Accounts	11		

For Amit Ray & Co.
Chartered Accountants



CA. Sandeep Chaudhary
Partner
Membership Number: 415858
Firm No. 000483C
Place : New Delhi
Date: 28.12.2020

For South Asian University




CA Keshav Datt
(Director Finance)

Prof. Ranjan K. Mohanty
(Acting President)



*Audited by SAU Statutory Auditor

**SOUTH ASIAN UNIVERSITY
CONSOLIDATED
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST DECEMBER 2019***

		(Amount - Rs.)	
INCOME	Schedule	Current Year	Previous Year
Contribution from Member States		943,247,194	826,113,475
Capital Fund Transferred (to the extent of Depreciation)	4	24,513,079	26,859,812
Academic Receipts	6	37,712,170	34,212,912
Other Income	7	1,710,704	514,341
TOTAL		1,007,183,147	887,700,540
EXPENDITURE			
Establishment Expenses	8	442,454,932	352,805,399
Other Administrative Expenses etc.	9	409,230,341	394,688,075
Academic Expenses	10	92,383,146	78,718,660
Depreciation: During the Year	4	24,513,079	26,859,812
TOTAL		968,581,498	853,071,946
Balance being surplus carried forward to General Fund		38,601,649	34,628,594
Significant Accounting Policies and Notes on Accounts	11		

For Amit Ray & Co.
Chartered Accountants

CA. Sandeep Chaudhary
Partner
Membership Number: 415858
Firm No. 000483C
Place : New Delhi
Date: 28.12.2020

For South Asian University

CA Keshav Datt
(Director Finance)

Prof. Ranjan K. Mohanty
(Acting President)



*Audited by SAU Statutory Auditor

**SOUTH ASIAN UNIVERSITY
CONSOLIDATED
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST DECEMBER 2019***

		Amount (Rs.)			
RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
Opening Balances			I. Expenses		
a. Cash in hand	741,752	810,935	a) Establishment Expenses	381,138,837	314,004,829
b. Bank Balances			b) Administrative Expenses	70,816,379	187,195,752
I. In Current & savings accounts	75,713,173	108,313,784	c) Academic Expenses	90,224,757	21,010,178
II. In deposit accounts	1,161,543,545	1,192,819,821	d) Expenditure on Fixed Assets		
II. Contributions Received			e) Purchase of Fixed Assets	16,528,586	13,037,167
Operational Contribution from SAARC Member States	2,465,900,000	3,162,810,419	f) Expenditure on Capital Work in Progress	809,975,771	1,819,453,788
III. Interest Received			III. Other Payments		
a) On Bank deposits	60,996,538	95,301,025	a) Advance to Staff / students	5,404,324	28,368,802
IV. Academic Receipts			b) Advance to Service Provider/ Vendors/Civil Contractors	1,601,171,330	532,787,631
a) Fees From SAU Students	24,237,663	28,819,821	c) Refund of Security deposits A/MOs	3,410,963	2,182,285
V. Other Receipts			d) Temporary Interbranch Transactions	87,300,731	1,129,380,879
a) Other Corpus fund Receipts	4,032,043	5,988,246	e) Deposit of Security with Government/CPWD	930,304	2,080,765
b) Security Deposit from Students		31,500	f) VAT / GST	144,880,443	4,581,685
c) Security Deposit from Vendors	1,798,291	60,038	g) Liabilities towards service provider/ vendor paid	16,205,615	30,132,576
d) Earnest Deposit from Vendors	3,174,090	1,621,909	h) Amount for common services paid on behalf of MOA	6,830,229	6,110,418
e) SAARC Silver Jubilee Scholarship GOI	11,855,431	52,000	i) Liabilities towards staff and students paid		44,621,926
f) Research & Development project receipts	34,250,577	27,007,581	j) Research & Development project payments	24,787,187	17,587,482
g) Other Misc Receipts	534,287	838,025	k) Refund of students security deposits/Fee	1,078,349	5,628,352
h) Other Misc Deposits (student aid fund)	124,704		l) SAARC Silver Jubilee Scholarship	12,427,402	14,807,216
i) Temporary Interbranch Transactions	85,977,686	861,340,539	m) Investments in Mutual Fund	110,000,000	100,000,000
j) Advance from staff / students recovered		8,975,215	n) Prepaid Expenses	800,182	1,470,105
k) Amount for common services recovered-MOA	5,778,302	3,662,456	o) Payment of Labour Cost	29,741,247	26,317,265
l) Sale of assets	47,641	222,851	IV. Closing Balances		
m) Mutual fund Receipt	368,272,855		a) Cash in hand	114,782	741,752
n) GST Refund Received	288,366,613		b) Bank Balances		
o) Refund of Deposits from CPWD	575,428		I. In current & savings accounts	200,605,966	75,713,173
p) VAT Refund from Delhi Government	7,102,967	99,433,324	II. In deposit accounts	1,106,067,533	1,161,543,545
TOTAL	4,881,751,744	5,669,666,778		4,581,751,755	5,559,568,778

For Amit Ray & Co.
Chartered Accountants

CA. Sandeep Chaudhary
Partner
Membership Number: 415858
Firm No. 000483C
Place : New Delhi
Date: 28.12.2020

For South Asian University

CA Keshav Datt
(Director Finance)

Prof. Ranjan Kumar Mohanty
(Acting President)



*Audited by SAU Statutory Auditor

Members of Governing Board

30	Oz -u u	<p>a 60vx hu uv Pu u u u <i>R™ b™ Nyw™ yN w</i> Qđ qz: ul L omkx l j i gzout Mrgs ó Vkv hró ul Elimgt qzgt Ogh r. Elimgt qzgt</p> <p>a 60 a -u ux fu <i>R™y U™™w</i> Hoki zuxgzk Kkt kxgr ul Vkmout gr Guuv kxgzout Qđ qz: ul Juxkört Ellgoy ul Elimgt qzgt Ogh r. Elimgt qzgt</p>	
40	Pu ' uxy -	<p>R 6Zu g-u- x u- <i>P w w</i> Yt ó kxy: Kxgt zy Gus s qyaut *YKG+ Fgt mgj kyn</p> <p>a 6a x6g-u Vu y <i>R™y U™™w/hNngP - OM hi SP0</i> Qđ qz: ul Juxkört Ellgoy Hnggg. Fgt mgj kyn</p>	
50	P- u	<p>a 6f w-y Z y <i>R™y</i> Hkv gzs kt zul WEEVG (Vkmout gr S xngt e gzout y. Qđ qz: ul Juxkört Ellgoy Xnó vn . Fn zgt</p> <p>a 6Zy u ' Q- xy R <i>R™y U™™w</i> Hkv gzs kt zul Ej rzgt j L omkx l j i gzout Qđ qz: ul l j i gzout Vu- gr Ku' kxt s kt zul Fn zgt Xnó vn . Fn zgt</p>	
60	Wx u	<p>R 6j u xy du <i>Nzz w h™y™w /OM hi SP - hNngP0</i> Qđ qz: ul l -zxt gr Ellgoy Ku' kxt s kt zul Mj g. Rk" Hkmo</p> <p>d 6R6g ' - <i>P w w</i> Yt ó kxy: Kxgt zy Gus s qyaut Rk" Hkmo</p>	

70	a u x y	<p>R 6a -u yx g-u yyz <i>k y™P w y™</i> Xnk Q grj ó ky Rgzout gr Yt ó kxy: Q grk. Vkv hró ul Q grj ó ky</p> <p>R 6W u- Vu u Qđ qz: ul L omkx l j i gzout Qđ qz: ul L omkx l j i gzout Q grkčVkv hró ul Q grj ó ky</p>	
80	by u	<p>d 6P- d u ux g vyx <i>P w w</i> Yt ó kxy: Kxgt zy Gus s qyaut . Rkvgr</p> <p>a 6f u d u ux g vyx <i>Y h™y™w w z V™wz™</i> <i>g™ wd w w R 3</i> Qđ qz: ul Juxkört Ellgoy Ku' kxt s kt zul Rkvgr. Ogzns gt j . Rkvgr</p>	
	du u	<p>R 6hu Pu <i>P w w</i> L omkx l j i gzout Gus s qyaut Mrgs ghgj . Tggqzgt</p> <p>R 6a -u ux Tu u <i>R™y U™™w/hN- hNngP0</i> Qđ qz: ul Juxkört Ellgoy. Mrgs ghgj . Tggqzgt</p>	" 00460023;
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320	g - O u i y	d xbf 6a -u e™ z™™ /d 3B Wú zn Eyagt Yt ó kxyā: .Rk” Hkmo R 60j gfu y - Q-u x u e™ z™™ /d 3B Wú zn Eyagt Yt ó kxyā: .Rk” Hkmo R 606Z6a u g™™ w - h™™™™™ w 3U™™™ O w z3 Wú zn Eyagt Yt ó kxyā: .Rk” Hkmo	“ 0k0033090#242 vzu 33090#242

Members of Executive Council

30	d xbf 6a -u Txyj kt z *S Ilmθ: WEY / Gngav kxyut R 60j gfu y - Q-u x u Txyj kt z *S Ilmθ: WEY	“ 0k0033090#242 vzu 33090#242
40	Zó k Txyj kt z	
50	d xgu u Q-u yx Gngav kxyut . Pdxgx: Ej ' gux: Gus s azkk d xfu u Z u a -u Gngav kxyut . Pdxgx: Ej ' gux: Gus s azkk	“ 0k00280: 0#242 vzu 270: 0#242
60	d xRyy ug -u Hkgt ul Vđ j kt zy. WEY d xg Z u Hkgt ul Vđ j kt zy. WEY	“ 0k00230: 0#242 vzu 53090#242
70	d xgu u Q-u yx Hkgt . JWWWEY	
80	d xgy - Zgj ' u Hkgt . JPVVWEY	
90	d xd u uv Z6a - Hkgt . JQGW	
: 0	d xg Z u Hkgt . JI WEY d x0 a u Hkgt . JI WEY	“ 0k00230: 0#242 vzu 53090#242
; 0	R 6fu x u du u Eyyui agzk Hkgt . JPVVWEY	
320	R 606Z6a u Vknyzgx: WEY (Rut /' uzā mQ ks hkvki xkzgx:	
330	a 6Zy -u Ru Hōki zux/Jā gt i k. WEY Rut /Zuzā mQ ks hkv	

Members of Academic Council

30	d ʒf ʒ6a -u Tɔkyɔ kt z*S llnɔ VEY / Gngɔv kxyut R 60j g f u y - Q - u x u Tɔkyɔ kt z*S llnɔ VEY	" 000330290242 vzu 3302902424
40	Zó k Tɔkyɔ kt z VEY	
50	d ʒgu u Q - u yx Hkgt . JVVWEY	
60	d ʒgy - Z ʒ y ' u Hkgt . JPVF/VEY	
70	d ʒd u uv Z6a - 4 Hkgt . JQGWVEY	
80	d ʒg Z u Hkgt . JI /VEY d ʒ0 a u Hkgt . JI /VEY	" 0002302: 0242 vzu 530290242
90	R 6f u x u d u u Eyyui ɔz k Hkgt . JPVWEY	
: 0	d ʒgu u Q - u yx Gngɔv kxyut . Póhxɔ Ej ' gux Gus s azkk d ʒf u u Z u a -u Gngɔv kxyut . Póhxɔ Ej ' gux Gus s azkk	" 0002802: 0242 vzu 2702: 0242
; 0	d ʒRyy ug -u Hkgt ul Vɛ j kt zy. VEY d ʒg Z u Hkgt ul Vɛ j kt zy. VEY	" 0002302: 0242 vzu 530290242
320	d ʒf u u Z u a -u Gngɔv kxyut . Hkvz0ul Q gznks gz0y. JQGWVEY d ʒZu Z u g - u u4 Gngɔv kxyut . Hkvz0ul Q gznks gz0y. JQGWVEY	" 000330270242 vzu 320270242
330	d ʒgu u u dy y u Gngɔv kxyut . Hkv gxs kt z ul Wui arum . JVVWEY	" 000280250242
340	d ʒb x R Zó k Gngt i kmux Vu. gr Yt ó kxyɔ ul Fn zgt . Xnɔ vn . Fn zgt	vzu 5202: 0242
350	R 60 Tu u g - u yyz Juxs kxZó k Gngt i kmux Q grj ó ky Rgzout gr Yt ó kxyɔ . Q grkčQ grj ó ky	vzu 5202: 0242
360	d ʒ0 - u [u - u f u u ' - y Tɔlkyxuxul l i ut us ó ygt j Hkgt Jgi rz ul Exy. Yt ó kxyɔ ul Gurus hu. Gurus hu. WɔPgt qg	vzu 5202: 0242
370	R 60 ʒ6a u g™ w (Rut /' uzá mQks hkvWki xkzgx	

Members of The Finance Committee

30	d ʒf ʒ6a -u Ny e™ z™ 3P w™ /S 4 y 0 Wl zn Eyɔgt Yt ó kxyɔ. Rk" Hkmo	
40	d ʒgy - Z ʒ y ' u Ny k y™ e™ z™ b™ x™ /S 4 y 0 Wl zn Eyɔgt Yt ó kxyɔ. Rk" Hkmo	
50	c y yy z - y U y ' P u x ʒ y : D6 01 n™ x™ w™ z™ b™ x™	
60	d ʒ6a - u x f y u Tu u k y™ P w y™ Nz w™ w z T w y™ N w 3 Zwx j ' kxyɔ . Elmgt ɔzgt	
70	a 6a -u ux S u i xx R™ y T w y™ ʒl™ j™ 3 R w w ʒ0w vɛ™	
80	Ryu 4TahO /S 4 y 0 Wl zn Eyɔgt Yt ó kxyɔ . Rk" Hkmo	
90	Ryu 4Tb Ph /S 4 y 0 Wl zn Eyɔgt Yt ó kxyɔ . Rk" Hkmo	
: 0	f y' u *l -/ulló a+ Rut /' uzá mQks hkvWki xkzgx Wl zn Eyɔgt Yt ó kxyɔ. Rk" Hkmo	
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