

=a][fU]Y
Gh X]i



Gh X]i !'I b]j Yfg]hUy

Gì YXYrB

F i gß

>U['j] ``Uba À`U'a]['h``i b]j Yfg]hUyH'
A Yb]cbYUhB`Vßj fY]'gß'hY`ÉbgW]] ``U'i b]j Yfg]hUy

f l É

>U['j] ``Uba À`U'a]['h``Yb`SSSSSSSSSSS"
5] fYU'gß`Ld`]WdYbhf i`i b`Wfg

SSSSSSSSSSSSS"

_UbX]XUh_i fg
H]di ``XY`Wfg

Uj UbWfUX`_i fg
H]di ``XY`Wfg

Xc_hcfUbX_i fg
H]di ``XY`Wfg

#

Zi ``h]Xg_i fg
H]di ``XY`Wfg

XYh]Xg_i fg
H]di ``XY`Wfg

cb`]bY_i fg
H]di ``XY`Wfg

>U['g_i ``Yj] `U'gh XYfUdÁ`Yfhi b]j Yfg]hUy]
SSSSSSSS"
A Yb]cbYUhB`VßXi fYUhB`gW]a Vi ``hBi `XY`Yi dYf]Yb B

SSSSSSSSSSSS"

Yb`hYfa]b
8 i fUu`gh X]i `i]`Ébhf!`c`i b]j Yfg]hUy`gffB]bß

Yth`ÀgÁf
8 i fUu`gh X]i `i]`Ébhf!`c`i b]j Yfg]hUy`gffB]bß

J UX`Áf`XYhZÖf`UFVYrgVY[fÁbg]b[UF`ZÖf`gh XYbYf3
ªbhfYUWß`XY`V&bX]]`Y`XY`i`Wf`dYbhf i`gh XYb]

3

⇒a][fU]Y Gh X]i

A ÁghY'U[j]gU'cf][]bUXc_i a YbhYb'Y`Yf'_cd]cf'Uj
cf][]bUXc_i a YbhYb3

3

^abhfYUWb'XUWb'Uj bYj c]Y'gS'UXi WY'XcW'a YbhY'Y'cf][]bUY'gU 'Vtd]] UY'UWg'cfU

J]'_UÁf'VΛ'Öf][\Yhg_fUj Yb'ZÖf'i b]] Yfgj]HYHb3

3

B YWgUf'Uhi bWY'Wb'X'Ud']WY'U'i b]] Yfgj]HUH

? ca a Yf'b] 'Uhg_]W_UYHhZcfa Y`hYfV' XUbXY3

3

^abhfYUWb'XUWb'j Y]df]a]'c'gW]gcUFY'XY'UWVdHUfY

; UfubhYfU'f'i b]] Yfgj]HYHhVcYbXY3

3

^abhfYUWb'XUWb'i b]] Yfgj]HUH'U'cZYfB'WdhUFY

⇒bbYZUHUf'_i fgYb'Yb'dfU_h_dYf]cX3

3

^abhfYUWb'XUWb'd'Ubi `hbi `XY'ghi X]]]a d']Wb']'c'dYf]cUXB'XY'dfUW]Wb

A ÁghY'U[žgca `i hVntHgggi XYbžVYHU'U'HYfa]bgUj []Zh
dÁ'X]hni b]] Yfgj]HYHb3

3

^abhfYUWb'XUWb'hfYMi]Y'gS'd'BYh h'dYf]cUXU'XY'ghi X]] `U'i b]] Yfgj]HUHU'[UhXB

< i f'_Ub'U['ZÖ'U'i h] YW_]b[Yb'Uj 'a]b'UbgÖ_Ub3

3

^abhfYUWb'W'a 'dc]'i fa Bf]'dfc[fYg]'Ud']WU]Y']HUfY

J]'_UÁf'gdFÁ_fUj Yb3

O

Q

3

⇒bZcfa YUhB]h'XY'b]] Y'i `XY`]a VB'Wfi hdYbfi 'Udi hU'Z]'UWVdHUh`U'i b]] Yfgj]HUfY

< i f'Zi b[YfUf' SSSSSSS'3

SSSSSSSSSSSSSS3

Gc`]W]hB']bZcfa U]] `XYgdfY'g]ghYa i `YXi WU]cbU

dcAb[gng]Ya Yh

H]di `XY'g]ghYa

VYm[gg]Atb]b[Yb

H]di `XY'g]ghYa

: Áf'U['Yb'_cd]U'Uj 'a]bU'U_UXYa]g_U'fYg]'hu]]
gi hYhUj 'a]hni hVntH3

3

^abhfYUWb'XUWb'j Y]df]a]'c'ZcU]Y'a Urf]Vt' B`U'Z]bU'i `a cV']hB]]

⇒a][fU]Y Gh X]i

< i f`Äf`i bXYfj]gb]b[Yb3 3
Gc`]V]hB`]bZcfa U]]`XYgdfY`g]ghYa i ``XY`dfYXUFY

:]bbg`XYhSSSSSSSS3 SSSSSSSSSSSS3
Gc`]V]hB`]bZcfa U]]`XYgdfY`g]ghYa i ``XY`dfYXUFY

ZÖFY`Ägb]b[Uf
H]di ``XY`Wfgj f]

gYa]bUF]Yf
H]di ``XY`Wfgj f]

\UbX`YXb]b[
H]di ``XY`Wfgj f]

_cbZYfYbgYf
H]di ``XY`Wfgj f]

J]`_U`_i fgYf`YfV1 Xg]`gca a Ufg_c`Ub3 3
Gc`]V]hB`]bZcfa U]]`XYgdfY`h]di f]`Y`XY`Wfgj f]`cZYf]hY`XY` Wc`]Y`XY`j UfB

B`Äf`Äf`hYb]h]dYf]cXYfbU3 3
a`bfYUWb`XUWb`Yi]ghB`Wbfi]gdcf]h]`Eb`WUXfi ``i b]j Yfg]hB]]

J Uf`_Ub`U[]`hU]bZcfa U]cb`ca`U`U`h`][`Äb[]][U
_i fgYf3 3
a`bfYUWb`i bXY`dc]`[Bg]`]bZcfa U]]`XYgdfY`Wfgj f]

< Uf`i b]j Yfg]hYhYb`]Xfch]gUb`Ä[[b]b[3 3
a`bfYUWb`XUWb`Yi]ghB`Wbfi]gdcf]h]`Eb`WUXfi ``i b]j Yfg]hB]]

< i f`_Ub`U[]`Ä`a`YX`]gh]XYbhZÖFYb]b[Uf3 3
a`bfYUWb`W`a`hY`dc]`U`B`h`fU`Ugc`V]U]]`cf`gh]XYb`Y`h]

< i f`V`Q`U`Äf`Yj bUXg_cg]hUXYfbU]`gh]UX3 3
7 YfY`]bZcfa U]]`XYgdfY`WY`h]Y`]Y`XY`Eb`fY]bYfY`Ygh]a U]j Y`Eb`cfU

Gh X]i !`7i fgj f]`XY`a V]`ghfB]bY
Gi YXhB

F i gß

⇒a][fU]Y Gh X]i

J] _UgdfÁ_ _Ub`u[`gh XYfUdÁ`XYbbU`g_c`Ub3

3

Gc`]V]rB`]bZcfa U]]`XYgdfY`]a V]`Y`gdfB]bY`WUFY`gY`dchighi X]U`Éb`UW``Wbhfí

:]bbg`XYh`Ythi`Ygh`u[_Ub`hU`ZÖf`Uthi`VYXÖa U`a]b
b]j`Á3

3

ªbhfYUWb`XUWb`Yi]ghB`i b`hYgh`XY`Yj U`i UfY`dYbhfí`U`]`gY`XYh`Yfa]bU`b]j`Y`i``XY`]a VB

? Ub`u[`VmtU`b]j`Á`ca`u[]b`hY`Áf`bÖX`a`YX`XYb`u[
[`Áf`]3

ž

ž

3

ªbhfYUWb`XUWb`É]`dc]`gW]a VU`b]j`Y`i``Éb`W`hi``Éb`W`UFY`bi`Y`h`a`i``i`a]h`XY`W`fgj``dY`W`UFY`É`Z`F`W`j`Y`b`h`Y`n]

:]bbg`XYh`Yb`XYhU`Y`fUX`V`Yg`_f]j`b]b[`Uj`_i`fgYb3

3

ªbhfYUWb`XUWb`Yi]ghB`c`XYgW]YfY`XYhU`]hB`U`W`fgj`i`]

< i`f`a`Áb[U`gh`XYb`hYf`hUf`_i`fgYb`a`U`]a`U`h]b3

3

ªbhfYUWb`W`UFY`Y`ghY`bi`a`Bfi``a`U`]a`XY`gh`XYb`]`Ébhfí`c`W`U`g`B

J] _U`c`_U`Ub`Á[[b]b[Uf`Z]bbg`XYh]`g_c`Ub3

3

ªbhfYUWb`W`Z`U`W]`]rB]`c`Z`Y`f`B`W`b`hfí``

5 ffUb[YfUf`g_c`Ub`c`W`gÁ`i`hZ`m`hYf3

3

ªbhfYUWb`XUWb`W`b`hfí``cf[Ub]nY`hB`XY`U`g`Ya`Yb`YU`YI`W`fgj]

J] _U`dfc[fLa`YfV`Xg3

3

ªbhfYUWb`W`Z`Y`XY`dfc[fLa`B`Y`c`Z`Y`f]rB

Gh X]i !`'6i`fgY`XY`gh`X]i

Gi`Y`X`Y`r`B

F`i`g`B

>U[`Áf`Áf`ZÖf`Uthi`ZfÁ[U`ca`Z]b`U`bg]Yf]b[ga`Ö`][`Y`h`Yf`

"

Gc`]V]rB`]bZcfa U]]`XYgdfY`dcg]V`]rB]`XY`Z]b`U`b`UFY

J] _U`cf[Ub]g`U]cb`Yf`_Ub`Z]b`U`bg]YfU`a`]bU`gh`X]Yf3

3

ªbhfYUWb`W`cf[Ub]ga`Y`É]`dchZ]b`U`b`U`gh`X]j`Y

⇒a][fU]Y Gh X]i

>U[\V\Q Yf'Y_cbca]g_ \`A`d`ZÖf`SSSSSSSS" SSSSSSSSSSSSS"
A Yb]cbYUhB`VB`Uj`bYj c]Y`XY`Uf` hcf`Z]bLbV]Uf

g_c`Uj []Z]Yf
DYb]fi `W`Uj`bYj c]Y`XY`Uf` hcf`Z]bLbV]Uf

a]bU`Yj bUXg_cg]bLUXYf
DYb]fi `W`Uj`bYj c]Y`XY`Uf` hcf`Z]bLbV]Uf

VUfbca gcf[
DYb]fi `W`Uj`bYj c]Y`XY`Uf` hcf`Z]bLbV]Uf

J]`_U`hmdYf`Uj`g]dYbX]Yf`Z]bbg`XYfB 3
^b]fYU]B`W`Z`XY`Vi fg`XY`gh`X]i`g`bhX]gdcb]V]`Y

Gh X]i !] U]XUfYU`gh X]]`cf`Eb`gfB]bB]U]Y

Gi YX]nB

Fi gB

>U[`g_i` ``Yj]`^Uj U]XYfUa]h]YI Ua Ybg]Yj]g] f]E` O` Q`
OUbXYfQ
A Yb]cbYUhB`VB`j`fY]`gB`]`Y]X]j`U`Yn]`W`f]Z]V]h` ``XY`gh`X]]`Eb`UfU`XY`XY`gh]bU]Y

:]bbg`XYh`Yb``]g]U`Q`Yf`U`U`W`f]Z]YfU`XY`Q`Yfg`A]h]UfY O` Q`
ZÖf`Q]d]f`A`Q`
^b]fYU]B`XU]B`YI]gh`B`c``]gh`W`h`fU`X]i`VB`hcf`U`hcf]nU]`Eb``]a`VU`XY`W]fY`Uj`bYj`c]Y

J Uf`_Ub`Uj`Z`A`Yh`]`_j`ÄfX]]`h`W`f]Z]`U`h`B 3
^b]fYU]B`i`bXY`dc`]`cV`]bY`i`b`W`f]Z]V]h`XY`Y]X]j`U`UfY