

6Yj 1bXcf`1/ø HUi `1/ø



HUi `1/ø! 9[mYhYa

X1b
>Y[j] [YfbY]bXg_fj Yg'dÁ`Yhi b]j Yfg]hYh'
6Y]fUh_cn1/ø

g ÅX
>U[j] ` Uba À`U'a][h` i b]j Yfg]hYh'

>Y[j] [YfbY`gQ[Y`ZU[YhSSSSSSSSSSSSSSS"
>Y`Ybh_YnÅg_`ÄdnÅgfY

>U[j] ` Uba À`U'a][h` `Yb`SSSSSSSSSSSSS"

VUWY`cf
? ÄdnÅg]hédi gU

_UbX]XUh_i fg

_UbX]XUgh XYfYbXY
? ÄdnÅg]hédi gU

Uj UbWfUX`_i fg

d\`X"!gh XYfYbXY
? ÄdnÅg]hédi gU

Xc_hcfUbX_i fg

Z `X]Xg
? ÄdnÅg]hédi gU

Z `h]Xg_i fg

XY`h]Xg
? ÄdnÅg]hédi gU

XYh]Xg_i fg

cb`]bY
? ÄdnÅg]hédi gU

cb`]bY_i fg

>Y[j] [YfbY`gh XYfY`dÁ`XYhY`i b]j Yfg]hYh]
SSSSSSSSSSSS"
7gYfY]X gnU_`cggnU

>U[g_i `Yj] `U`gh XYfU`dÁ`Yfhi b]j Yfg]hYh]`SSSSSSSSS"

YhgYa YghYf
7gYfY]X gnU_`cggnU

Yb`hYfa]b

Yhgi X]YÁf
7gYfY]X gnU_`cggnU

Yh`ÄgÁf

<j UX`Yf`UFVY`XgfYgf]_h]cbYfbY`Zcf`gh XYfYbXY3
A i b_Uj ½U`1/øX]½c_`fÄgnÁfY

J UX`Áf`XYhZÇ`UFVYhg]Y[f`Äbgb]b[UF`ZÇ`gh XYbhYf 3

6Yj 1bXcf`1/ø HUBi `1/ø



G_U`Y[j]gY`cd]Yf`UZXY`cf][]bUY`Xc_i a YbhYf
Y`Yf`gY`j Y`XY`cf][]bUY`Xc_i a YbhYf3
8c_i a Ybh a c_

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

<j UX`Yf`cd]U[Y`gY`g_fUj YbY`h`i` b]j Yfg]hYhY3
9[nYhYa fY`j Uí`Y`Ybh_YnÁg_cf

J]_U`Áf`VÁ`Öf][\Yrg_fUj Yb`ZÖf`i` b]j Yfg]hYhY3

GYbXYf`=a][`Yb`Zcfa Y`cd]U[Y`gY`VY`fÁ`ZHY`gY3
<j] Uu]cg]U`Yb`Uh

? ca a Yf`b]`Urhig_]W]U`YhZcfa Y`h`YfV`i` XUbXY3

; UfUbhYfYf`i` b]j Yfg]hYhYh]bX_j UfYf]b[3
Gn1/2 1/ø

; UfUbhYfUf`i` b]j Yfg]hYhYhVcYbXY3

≠bXY`c`XYf`ZU[Yhic[g`Á`Yb`dfU`h`_dYf]cXY3
; mU_cfb_c_]`jX` gnU_

≠bbYZU]Uf`_i` fgYb`Yb`dfU`h`_dYf]cX3

9f`XYf`ca`_cg]b]b[Yf`j YX`Ugh] XYfY`gca
i Xj Y_g]b[ggh] XYfYbXY`dÁ`XYhY`i` b]j Yfg]hYhY3
5 bbU`_a` Y[ÁfXY`_` XÁgYz`c[mVgYfYX]1/2`_Ábh`Y`!`Y`hUbXÉ`UhZ]nYfb]

A ÁghY`U[žgca`i` hVn]Yggh] XYbZ`VhU`U`hYfa]bg]j []ZhdÁ
X]h]i` b]j Yfg]hYhY3

<j cfXUb`_Ub`Y[`ZÖ[Y`a]b`UbgÖ] b]b[g`ZfYa [Ub[3
5 bbU`_a` Y[ÁfXY`_` XÁgYz`c[mU`Y`Ybh_YnÁg]bnc`a` cb`_Ö] Yh`Yh`!`Y

<i f`_Ub`U[`ZÖ`U`i` h] YW]`b[Yb`Uj`_a]b`UbgÖ`Ub3

<j UX`Yf`gdfc[_fUj YbY3
BmY`j`h`X]gU`_Ub]Uc`Urcg`_Ö] Yh`a`ÁbnY`_ZY`_`j`Uí`ÁfXY`_`XÁg

J]_U`Áf`gdfÁ`_fUj Yb3

<j cfXUb`Yf`SSSSSSSSSS`gng]Ya Yh3
¥fXY`_` XÁg`U`fYbXgnYff`_`

<i f`Z`b[YfUf`SSSSSSSS`3

gi X]Ydc]bh
F YbXgnYf`h`di`gU

dcÁb[gng]Ya Yh

VYXÖa a Y`gY
F YbXgnYf`h`di`gU

VYm]`gg]Áh]b]b[Yb

: Áf`Y[`Yb`U`UXYa]g`_i` Xg`f]Zhg]Xgh]`a]h
i Xj Y_g]b[gcd`c`X3
5 bbU`_a` Y[_ÁfXYnÁgYz`c[m`Y`!`Y`h`Xca`Ybncg`Y]f]h]U`VgYfY`j`Á`Áb

: Áf`U[`Yb`_cd]U]Uj`_a]b]U`U`UXYa]g`_U`fYg`_h]h]`gi`h]h]U
a]h]i`h]n]h]Y3

6Yj 1bXcf`1/g HUi `1/g



< j cfXUb`Yf`i bXYfj]gb]b[gZcfa Yb3
¥fXY_` XÅg`U`hUbÉ1/g]`gÉi`gfí`

< i f`Åf`i bXYfj]gb]b[Yb3

9f`XYf`SSSSSSSSSSSSSS`3
¥fXY_` XÅg`U`hUbÉ1/g]`gÉi`gfí`

:]bbgXYhSSSSSSSS3

ZcfY`Ågb]b[Yf
` fU`hÉdi`gU

ZÈY`Àgb]b[Uf

gYa]bUfYf
` fU`hÉdi`gU

gYa]bUf]Yf

i bXYfj]gb]b[
` fU`hÉdi`gU

\UbX`YXb]b[

_cbZYfYbWf
` fU`hÉdi`gU

_cbZYfYbgYf

< j]_Y`ZU[`h]`VmXYg`dÁ`gca`a`Yfg_c`Y3
BmÉ]`Y[`mY`Ya`Y_`1/2U`_Éb1/2h_i`fni`gc_`ZY` `]`ÅfXY_` XÅg

J]_U`_i`fgYf`YfV`i`Xg]`gca`a`Ufg_c`Ub3

< j cfbÁf`UZ`c`XYg`Y`gUa]bYfbY3
J]ng[U]X`dcbhc_`

BÁf`Áf`hYb`hUdYf]cXYfbU3

< j cf`_Ub`Y[`Z]bXY]bZcfa`U]cb`ca`ZU[`YbY3
?`i`fni`gc_`U`_UbVgc`Urcg]bZcfa`1/2Yi`_ÁfÁgY

J`Uf`_Ub`U[`]`hU]bZcfa`U]cb`ca`U`U`h`[`Áb[`][`U`_i`fgYf`3

9f`XYf`Yb`gdcfhg`U`dÁ`i`b]j`Yfg]hYhY3
Gdcfh_ÖndcbhZY` `j`Uí`ÁfXY_` XÅg

< Uf`i`b]j`Yfg]hYhYb`]Xf`chUg`b`Á[`[`b]b[`3

< j cfXUb`_Ub`Y[`XY`hU[`Y]`gi`XYb`hYfZc`fYb]b[`Yf3
8]1/2Y[`mYgØ`YhY`_`Ynj`Uí`V`U`h`U`cn1/g

< i f`_Ub`U[`[`Á`a`YX]`gi`XYb`hZÈ`fYb]b[`Uf`3

< j UX`Yf`XYb`Ubg`ÁXY`Yj`Yca`_cg]b[`]`ÖmÖ3
5`j`1/2cgU`b]j`Uí`a`Y[`Á`Y`hÁg]`_ÖhgÁ[`Y_`ZY` `]`Uí`ÁfXY_` XÅg

< i f`_Ö[`U`Áf`Yj`bUXg`cg]bUXYfbU]`Ö`hUXÖ3

HUi `1/g!`BmYj`hUbZc`ntla X1/b

g`ÅX

6Yj 1bXcf`1g HUi `1g



< j] _Y'gdfc[_Ub'Y['gh XYFY'dA'g_c`Yb3
BmYj _i fni gc_ZY' `j U'i 'AfXY_` XAg

J] _U'gdfA_ _Ub'U['gh XYfUdA'XYbbU'g_c`Ub3

9f'XYf'Yb'd'UWf]b[ghYghZcf'UhVYXCa a Y'a]h
bj] YU 3
Gn]bhZY'a Af' hYghZY' `j U'i 'AfXY_` XAg

:]bbgjXYhYhgh'U[_Ub'U'ZCf'UhVYXCa U'a]b'b]j A3

? Ub'Y['g_]ZHY'h'`YhUbXYhb]j YU' `j]gXYb'Y[
XY'U[Yf']]_Y'dUgYf'h'`a] [3
5bbU_`a Y[_AfXYnAgZ`c[m`Y`YhA[Yg'Y'gn]bhYhj 1/2U]

? Ub'U['VnHU'b]j A'ca' `U[]bh' Af' bO'X'a YX'XYb'U[[Af]3

< Uf'Xi' `Yb'XYHU'YfYhVYg_f]j Y'gY'UZ'ZU[Yh3
6 j YW']bZcfa 1/2Y[_AfAgY'UbnY'j HU'Zc`mta fi`

:]bbgjXYhYb'XYHU'YfUX'VYg_f]j b]b['Uj' _i fgYb3

< j UX'Yf'XYha U_g]a UY'UbHU'XY'U[YbXY'gh XYfYbXY
df''ZU[3
A U]a 1/2]gfAg]j Yj _'gn'1/2 1/2U_`a Y[_AfXYnAgY

< i f'a Ab[U'gh XYbhYf'Uf' _i fgYb'a U]a Uh]b3

< j] _Y'ZUW]hYf'Z]bXYg'XYf'dA'g_c`Yb3
5n]g_c`U'1/2U'bnO'rchh`Y`Yh gA[Y_f' `j U'i 'AfXY_` XAg

J] _U'c'_U'Ub'À[[b]b[Uf'Z]bbgjXYh]'g_c`Ub3

5ffU]b[YfYf' =c[gA'Y_g_i fg]cbYf3
?]f'1/2Xi' `1/2gc_ZY' `j U'i 'AfXY_` XAg

5ffU]b[YfUf'g_c`Ub'cW'gA'i hZm_hYf3

< j] _Y'dfc[fUa a Yf'h'VnXYg`Yf3
5n]g_c`U'1/2U'U'1/2b`chidfc[fUa c_ZY' `j U'i 'AfXY_` XAg

J] _U'dfc[fUa YfV'1 Xg3

HUi `1g! ^2 grhCbXEU_

X1b

>Y[`Yf`Yf`Zcf'UhgdOf[Y'h'`a i `]] [\XYfbY'Zcf
g]dYbX]Yf
:]bUbg]f'cn1/2] _O'hA[Y_ZY' `j U'i 'AfXY_` XAg

g AX

>U[`Af`Af`ZCf'UhZ'fA[U'ca' Z]bUbg]Yf]b[ga O^][\YfYf''

< j] _Y'cf[Ub]gU]cbYf' _Ub'Z]bUbg]YfY'a]hgi X]i a 3
5bbU_`a Y[_AfXYnAgZ'a Y'm]_gnYfj YnYhY_ Z]bUbg]f'cn\Uh1/2`U'ubi `a 1/2mc_Uh

J] _U'cf[Ub]gU]cbYf' _Ub'Z]bUbg]YfU'a]bU'gh X]Yf3

>Y[`Uf'Vfi [`Zcf'Ô_cbca]g_`A'd'h'
SSSSSSSSSSSS"
5bmU[]h'1/2 c[Uh'1/2_AfAgY

>U[`V`Q Yf Y_cbca]g_`A'd`ZCf' SSSSSSSS"

6Yj 1bXcf`1g HUBi `1g



gi XjY[YVmfYf

g_c`Uj []ZYf

8c`c[žLá]\Yn'UbntU[] h1a c[Uh1g'gn0_gÁ[Yg

`Yj Yca _cgb)b[Yf

a]bU`Yj bUXg_cgbUXYf

8c`c[žLá]\Yn'UbntU[] h1a c[Uh1g'gn0_gÁ[Yg

VÔfbYdUgb)b[

VUfbca gcf[

8c`c[žLá]\Yn'UbntU[] h1a c[Uh1g'gn0_gÁ[Yg

< j] _Y'gU[g'gh'dYbX]Yf'Yf'h' [Áb[Y][Y3

J] _U'hmlYf' Uj 'gh'dYbX]Yf' Z]bbgXYh3

8c`c[žLá]\Yn'UbntU[] h1a c[Uh1g'gn0_gÁ[Yg

HUBi `1g! ? ØZØX]X]d`ca U'Áfj ÁbmYg'ÁgY

X1b

g ÁX

>Y[j] ' [YfbYj U]XYfY'a]hUZgi HhYbXY

>U['g_i ``Yj] `Uj U]XYfU'a]hYi Ua YbgVj]g]'OubXYhØ

Y_gLa YbgVj]g]'OubXØ

? ØZØX]X]d`ca UY Zc[UXhU1gU

< Uf`=Yb`]gh'cj Yf'Wfh]Z]WfYXY'cj YfgÁ HhYfY'Zcf

:]bbgXYhYb`]ghU'Q Yf' U`U'Wfh]Z]Yf'UXY'Q Yf'gÁHhYfY'Zcf

Qdfc[Ø

QdfÁ_Ø

<]h'YgZcfXhí _ZY `j Uí 'ÁfXY_` XÁg

< j cf`_Ub`Y['ZÁ'YhÁ_j]j UYbgWfh]Z]_U3

J Uf`_Ub`U['ZÁ'Yh`_j ÁfX][hWfh]Z]_U3

5 bbU`a Y[ÁfXY_` XÁgž`c` ``Y\Yh][Uhc`1g'Udb]'Uh'Y]ga YfhX]d`ca 1í`