

) \$`>U\ fY`6`Öfb`6Yfb UXchhY. : Y]Yf`Ui Z`XYf
6`i a Yb]bgY`A U]bUi`°

6`Öfb`; fUZ`6Yfb UXchhY`ZY]Yfh'gY]bYb`) \$"; YVi fhghU[`Ui Z`XYf
6`i a Yb]bgY`A U]bUi` `Y]b` \]ghcf]gWYg`5i gZi [gn]Y`]a
6cXYbgYY"



⇒bgY`A U]bUi`%ž+, (*)`⇒bgY`A U]bUi`ž`8Yi hgW`UbX`!
<Yfn`]WYb`;`ØW_k i bgW`Ub`6`Öfb`; fUZ`6Yfb UXchhY`°5a
j Yf[Ub[YbYb` : fY]hU[ž`XYa`%'`"'> b]ž`ZY]YfhY`XYf`UX`][Y`Gdfcgg
gY]bYb`) \$"; YVi fhghU[`Ui Z`XYf`k i bXYfgW`ÖbYb`6`i a Yb]bgY`
A U]bUi`]a`6cXYbgYY"°8]Y : Y]Yf`]W`_Y]hYb`ZUbXYb`]a`ZYgh`]WYb
K`Y]» Yb`GUU`XYg` \]ghcf]gWYb`A U]bUi`!GW`cggYg`ghUhhž`XUg`ni`f
Y]bn][Ufh][Yb`?`i` `]ggY`ZØf`X]YgYb`VYgcbXYfYb`5b`Ugg`k i fXY"°8]Y
⇒bgY`]gh`b]W`h`bi`f`ZØf`]\fY`Ødd][Y`6`ØhYbdfUW`h`VY`_Ubbhž`gcbXYfb
\Uh`Ui`W`Y]bY`VYk`Y[`hY` ; YgW`]W`hY`ž`X]Y`V]g`]bg`%'`"'> U\`f` \i`bXYfh
ni`fØW`fY]W`h"°<]Yf`k`]fX`X]Y`BUhi`f`nY`YVf]Yfhž`k`]Y`
j`]g]hXYi`hgW`UbX"]bZc`VYf]W`hYh"

8]Y`A U]bUi`j`YfXUb`_h`]\fYb` \Yi`h][Yb`;`Ubn`; fUZ`@YbbUfhž`XYf`X]Y

j Yfk]`XYfhY` ðgY`]b`Y]b`V`Ø\YbXYg`DUfUX]Yg`j Yfk UbXY`hY`"9f
a UW`hY`X]Y`6`i a Yb]bgY`%- & , `ZØf`X]Y`² ZYbh`]W`_Y]h`ni [`Àb[`]W`
i bX`ØVYfbU`a` %- ` & `X]Y`J Yfk U`hi b[`ž`X]Y` \Yi` hY`j cb`6`Øfb
6YfbUXchhY`i bX`gY]bYf`GW`k YghYf`6Yhh]bU`[Y`Y]hY`h`k]fX`"8]YgY
Yb[U[]YfhY`g]W` ØVYf` ð\ fnY`b`hY`YVYbZU`g`]b`XYf
; YgW`ÀZh`gZØ\fi b[`XYf`A U]bUi` ; a V<ž`gc`XUgg`X]Y` : Ua`]`Yž`X]Y
Ui W`Yb[`a`]h`XYa` `gW`k YX]gW`Yb`?Øb][g`U`i` g`j YfVi` bXYb`]ghž`\fY
HfUX]h]cbYb`i bX`K`YfhY`]b`X]Y`j]YfhY` ; YbYfUh]cb`hf`À[hž`k]Y`
a U]bUi` "XY`ZYgh`À`h`"

9]b`C`fh`XYf`9f`c`i` b[

8]Y`A U]bUi`]gh`b]W`h`bi`f`Y]b`VY`]YVhYg`5i`gZi` [gn]Y`a`]h`À`f`]W`
Yhk`U`-` "\$\$\$\$`6Ygi` W`Yfbž`gcbXYfb`V]YhYhiUi` W`nU`\fY]W`Y
5hhfU`_h]cbYb`k]Y`XUg`6YfbUXchhY!GW`c`ggž`XUg
GW`a`YhhYf`]b[g`U`i`g`i` bX`VYY]bXfi`W`_YbXY`VUfc`W`_Y` ; `ÀfhYb`"Hfchn
XYf`gW`k]Yf][Yb`NY]hYb`k `À`fYbX`XYf`7cfc`bU!DUbXYa`]Y`\Uh`X]Y
ðgY`\fYb`7`Ufa`Y`b]W`h`j Yf`c`fYb`i` bX`V`Y]Vh`Y]b`A U[bYh`ZØf
BUhi`f!`i` bX` ; UfhYb`]YV`UVYf`"8]Y`<`Ui`d`hUhhfU`_h]cbYb`n]Y`Yb
Hci`f]ghYb`Ui`g`bU`i` bX`ZYfb`Ubž`gc`XUgg`Yg`b]W`h`j Yfk`i` bXYf`]W`]ghž
XUgg`X]Y` ðgY` %- `X]Y`6Ygi` W`Yf`gck`c`\`]a` : fØ`\]b[`U`g`Ui` W`]a
Gca`a`Yf`a`]h]\fYf` : UfVYbdfUW`h`j YfnUi`VYfh`"

8]Y`A U]bUi` `À`Xh`6Ygi` W`Yf`Y]bž`X]Y` : `c`fU`i` bX` : Ui`bU`XYf` ðgY`ni
Yf`VYb`"8]Y`VYgcbXYfYb`DZUb`nYbUfhYb`i` bX`XYf`ØVYf`%) \$`ð\`fY
U`hY`6Ui`a`VYghUb`X`gW`UZZYb`Y]bY`C`UgY`XYf`9bhgdUbbi`b[`ž`]b`XYf
a`Ub`XYa` `5`hU[gghfYgg`Yb`hZ]Y`Yb`_Ubb`"8]Y` ; Ughfcbca`]Y`j`c`f`C`fh
V]YhYh`fY[]cbU`Y`?Øgh]W`_Y]hYbž`X]Y`XYb`5i`ZYbh`U`h`Ui`Z`XYf` ðgY`
dYfZY`_h`UVfi`bXYb` `Y]b` ; Ybi`gg`ZØf`YXYb` ; Ui`a`Yb`°

8 Ug`9fVY`XYf` ; fUZYbZUa`]`Y

6`Øfb`6YfbUXchhY`]gh`b]W`h`bi`f`ZØf`X]Y` ; YgW`ÀZh`Y`XYf`A U]bUi
j`YfU`bhk`cfh]W`ž`gcbXYfb`]gh`Ui` W` `Y]XYbgW`UZh`]W`Yf
: `]bhYbgW`ØhY`i` bX`ð[XYbh`i`g]Ugh`A`]h`XYa` `6`]W`_Y]b`X]Y`Ni`_i`bZh
d`Ub`h`Yf`VYfY]ghž`X]Y` ðgY`bc`W`UhhfU`_h]j`Yf`ZØf`HU[i`b[Yb`i`bX
J`YfU`bghU`hi`b[Yb`ni` [YghU`hYb`"8Yf`9]bV`]W`_Y]b`X]Y` ; YgW`]W`hY`i`bX
X]Y`9bhk`]W`_i`b[`XYf`A U]bUi`]gh`i`bhYb`bVUf`a`]h`XYf` : Ua`]`Y

6YfbUXchhY'j YfVi bXYbž'XYfYb'A]h[`]YXYf'gY]h; YbYfUh]cbYb'X]Y
; YgW]W_Y'XYf' ðgY''Y]hYb"

8YfnY]h'k]fX'XUg'GW`cgg'Ui Z'XYf'A U]bUi 'gUb]Yfhž'XU'XUg'8UW
ghUf_'a UfcXY']gh"8]Yg'nY][h'XUg'ghYh][Y'9b[U[Ya Ybh'XYf': Ua]]Y
6YfbUXchhYž'X]Y'GW`Òb\Y]h'XYf' ðgY''ni 'VYk U\fyb'i bX'g]Y'Z0f
ni _0bZh][Y'; YbYfUh]cbYb'ni [Àb[`]W`ni 'a UWYb"8Yf
: Ua]]Ybni gUa a Yb\U'hV'Y]Vh'Ui W`]b'Ubgd fi W`gj c''Yb'NY]hYb
ghUf_ž'k Ug'X]Y' ðXY'XYg'[Ya Y]bgUa Yb'GW'UZZYbg'i bX'9f\U'hYbg
Ui Z'XYf'A U]bUi 'j YfXYi h]W`h"

8]Y'A U]bUi 'k i fXY'%- +('j c`ghÀbX]['j]b'X]Y'A U]bUi '; a V<
]bhY[f]Yfhi bX'[Y\0fhi ni f'[Ya Y]bb0hm][Yb'@YbbUfh!6YfbUXchhY!
Gh]Zhi b[ž'k Ug']\fy'D\]cgcd\Y'XYf'BUhi fgW`Òb\Y]h'i bX
9bhgdUbbi b['Z0f'X]Y'6Ygi W`Yf'nYa Ybh]Yfh"Gc'V'Y]Vh'X]Y
6'i a Yb]bgY''Y]b'C fhž'Ub'XYa 'X]Y'6Ygi W`Yf'XUg'@YVYb' [Yb]Y» Yb
_0bbYb'i bX'X]Y'@]YVY'ni f'BUhi f']b'YXYf'6`0hY'gd0fYb"

: 0f'U''Yž'X]Y'X]Y'A U]bUi 'VYgi W`Yb'a 0W`hYbž'g]bX'X]Y
2 Zbi b[gnY]hYb'[fc» n0[] ['j cb'A cbhU['V]g'GcbbhU[ž'-. \$ \$'V]g
%- . \$ \$'I \f"@UggYb'G]Y'g]W`j cb'XYf'Y]bn][Ufh][Yb'5ha cgd\ÅfY
j YfnUi VYfb'i bX'Yf'YVYb'G]Y'Y]bY'XYf'gW`0bghYb' ðgY'b'ja
6cXYbgYYž'X]Y'ja a Yf'Y]bY'F Y]gY'k Yfh]gh"

8YhU]`g	
C fh	ðgY''A U]bUi '%ž+, (*) ' ðgY''A U]bUi ž 8Yi hgW`UbX
E i Y''Yb	<ul style="list-style-type: none">• k k k "gW`k UYV]gW`Y"XY• k k k "a U]bUi "XY• k k k "j]g]hXYi hgW`UbX"]bZc

6Ygi W`Yb'G]Y'i bg'Ui Z.'bU[!Vk "XY