

B Yi Y`6]ca Ø`hcb bYb`]a`C ghU`V_fY]g. `Gc
Zi b_h]cb]Yfh`XUg`GmghYa`UV`C_hcVYf°

5V`%"`C_hcVYf`a ØggYb` ; C 5!`?i bXYb`]a`C ghU`V_fY]g`6]ca Ø`
]b`bYi Yb`VfUi bYb`Hfc`Yb`Ybhgc f[Yb`"<]Yf`g]bX`X]Y
k]W h][ghYb`⊕Zcg"

⇒ `C ghU`V_fY]g`U`h`Y]bY`k]W h][Y`I a ghY`i b[`ni f
5VZU`Yb hgc f[i b[`VY[cbbYb`"5V`XYa`%"`C_hcVYf`&\$&(`a ØggYb
X]Y`?i bXYb`XYf` ; YgY`gW UZhi]a`C ghU`V_fY]g`ZØf
5VZU`VYk]fhgW UZhi b[`fi C 5E`]\fYb`6]ca Ø`]b`bYi Yb`VfUi bYb
Hcb bYb gmg hYa Yb`Yb hgc f[Yb`"8]Y`bYi Yb`6Y`Ā`hYfž`X]Y`j cb`XYf
; C 5`VYfY]hg`j cfVYghY`h`i bX`Ub`X]Y`<Ui g`U`hY`j YfhY`h`k i fXYbž
gc`Yb`XUni`VY]hfU[Ybž`X]Y`GUi VYf`_Y]h]b`XYb`GhĀ`XhYb`i bX
; Ya Y]bXYb`ni`j YfVYggYfb`i bX`X]Y`I a k Y`hVY`Ughi b[`Xi fW
D`Ugh]_`ni`j Yff]b[Yfb"

8]Y`I a ghY`i b[`Ui ZXUg`bYi Y`6]ca Ø`gmghYa`i a ZUggh`Y]bY`F Y]\Y
j cb`Y`bXYfi b[Ybž`X]Y`VYfY]hg`UV`XYa`%"`GYdhYa VYf`&\$&(`[fY]ZYb`
BYVYb`XYf`9]bZØ\fi b[`j cb`VfUi bYb`Hfc`Yb`i bX`Hcb bYb`k]fX`X]Y
5fh`XYf`A Ø`VYi hY`[YĀ`bXYfh`"8]Y`V]g`Yf][Yb`D`Ugh]_VYi hY`k YfXYb
Xi fW`DUd]YfVYi hY`YfgYhnhž`X]Y`ni`%\$`DfcnYbh`Ui g
FYWmW]b[dUd]Yf`VYghY`Yb`i bX`j c`ghĀ`bX][`ca`dcgh]YfVUf`g]bX`
8]YgY`bYi Yb`6Yi hY`gc`Yb`b]W h`bi f`i a k Y`hZfYi bX`W Yf`gY]bž
gcbXYfb`Ui W`X]Y`<UbX`UVi b[`XYg`6]ca Ø`g`Yf`Y]W hYfb"

8 YhU]`g`ni f`bYi Yb`5VZU`Yb hgc f[i b[

8]Y`bYi Yb`Hcb bY`V]YhYhj YfgW]YXYbY`J c`i a]bU`Ub.`?i bXYb
_ØbbYb`nk]gW Yb`Y]bYf`Hcb bYb[fØ» Y`j cb`() `@]hYfb`gck]Y`* \$ž, \$
cXYf`%&\$`@]hYfb`k Ā`Yb`"⊕hYfYgg]YfhYž`X]Y`VYfY]hg`Y]bY
; Ya Y]bgW UZhgcb bY`bi hnYbž`XØfZYb`X]YgY`VY`U`hYbž`YXcW`a`i`gg

Y]b`gdYn]Y`Yf`7\]d`ni f`Xb]Z]_Uh]cb`Y]b[YVUi h`k YfXYb`"HYfa]bY
XUZØf`_ÒbbYb`hY`YZcb]gW`VY]`XYf`; C 5`j`YfY]bVUfh`k YfXYb`"

8]Y`5V\c`i b[`XYg`6]ca Ø`g`V`Y]Vh`i bj YfAbXYfh`i bX`YfZc`[h
k Y]hYf\]b`k ÒW`Yb`h]W`" ðZcfa Uh]cbYb`ni `XYb`gdYn]Z]gW`Yb
5VZ` \fhYfa]bYb`Z]bXYb`X]Y`6Øf[Yf`]b`]fYa`5VZ` \f_U`YbXYf`"8 Ug
; C 5!HYUa` \Uh`\]Yf`j`cf[Ygcf[hž`gcXUgg`YXYf`6Yk`c`bYf`X]Y
bch`k YbX][Yb`ðZcfa Uh]cbYb`VYe`i Ya`c`b`]bY`Y]bgY`Yb`_Ubb`"

9]b`k Y]hYfYg`nYbhfU`Yg`5b`]Y[Yb`XYf`; C 5`]gh`X]Y`G]W`YfghY``i b[ž
XUgg`[YbØ[YbX`i: U`fnYi [Y`i bX`DYfgcbU`ni f`J`YfZØ[i b[`ghY`Ybž
i a`X]Y`9bhgc`f[i b[`a`]h`XYf`bYi Yb`HYW`b]_`YZZ`_h]j
Xi fW`ni ZØ`fYb`": Øf`X]YgY`l a`ghY``i b[`g]bX`bYi Y
GY]hYb`UXYfZU`fnYi [Y`Ub[YgW`UZZ`h`k`cfXYbž`X]Y`UV`XYa
_ca`a`YbXYb`A`cbUh`]a`9]bgUh`gY]b`k YfXYb`"

- 8]Y`bYi Yb`DUd]YfVYi hY`g]bX`UV`XYa`%"GYdhYa`VYf`ni a
DfY]g`j`cb`" ž) \$`9i`fc`ZØf`Y]b`NY`bYfdUW`_Yf`À`h]W`"
- G]Y`g]bX`Ub[`YV][`i bX`Ui`g`FYW`W]b[`dUd]Yfž`k`Ug`]fYb
Ò_c`c[]gW`Yb`i`i`»UVXfi`W`_gYb`_h`"
- 8]Y`6]cVYi hY`hcb`bY`a`i`gg`gc`VYfY]h[YghY`h`k`YfXYbž`XUgg
g]Y`ZØf`X]Y`5VZ` \fZU`fnYi [Y`Y]W`h`ni [`Àb[`]W`]gh`"

8]Y`; C 5` \Uh`Ui`W`_`UfY`5bk`Y]gi`b[Yb`[Y[YVYbž`k`Ug`dUgg]Yfhž
k`Ybb`Yg]b`XYf`GhfU`»Y`ni`6Ui`ghY`Yb`_ca`a`h`"ð`gc`W`Yb`i: `À`Yb
a`i`gg`X]Y`6]cVYi hY`hcb`bY`j`cf`XYa`6Ui`ghY`Yb`VYfY]W`UV[YghY`h
k`YfXYbž`i`a`Y]bY`fY]Vi`b[`g`cgY`5V\c`i`b[`ni`[Yk`À`f`Y]ghYb`"

9]b`k`]W`h][Yg`N]Y`X]YgYf`l`a`ghY``i`b[`]gh`Ygž`X]Y`J`YfgW`a`i`hni`b[`]b
XYb`Gh`X`hYb`ni`j`Yff]b[`Yfb`"8`i`fW`X]Y`bYi`Yb`[`YgW`c`ggYbYb
6Y`À`hYf`gc`Yb`H]YfY`XUj`cb`UV[Y`U`hYb`k`YfXYbž`XYb`6]ca`Ø``ni
Xi`fW`gi`W`Yb`i`bX`Ui`Z`X]YgY`K`Y]gY`5VZU``Ui`Z`XYf`GhfU`»Y`ni
j`YfhY]Yb`"@Ui`h`Gj`Yb`U`G`W`bY`ž`DfYggYgd`fYW`Yf]b`XYf`; C 5`ž`k`]fX
Yfk`UfhYhž`XUgg`X]Y`GUi`VYf`_Y]h`]a`GhUXhV]X`XYi`h]W`j`YfVYggYfh
k`]fX`"

8]Y`l`a`ghY``i`b[`]Ui`Z`XUg`bYi`Y`GmghYa`a`Uf_]Yfh`Y]bYb
Yb`hgW`Y]XYbXYb`GW`f]h`i]b`XYf`5VZU`d`c`]h]_`XYg`C`ghU`V`_fY]gYgž`X]Y

b]W h'bi f'XYf'l a k Y'hž'gcbXYfb'Ui W X'Yb'6Øf[Yfb']bg[YgUa h
ni [i hY_ca a Yb'gc`""8]Y'; C 5'ZcfXYfh']\fY'?'i bXYb'XUni 'Ui Z'Ub
XYf'bYi Yb'FY[Y'i b['U_hj] 'hY]'ni bY\ a Yb'i bX'X]Y'bYi Yb'6Yi hY`
nY]hbU\ 'ni 'Yfk YfVYb"

8 YhU]`g

6Ygi W X'Yb'G]Y'i bg'Ui Z.'b!U["XY