
∴;!;D" ~~E")%" \$2\$ - \$1" * + " & (" * H & % " ? * & > A S E " % H) A A " O S " 0) % \$ 1 " + (" K \$) - % " + 2 " % \$ - O & > \$ " * + " * H \$ " = & % * & > * ") (1 " % H) A A ") 7 7 A K " * + ") A A " . \$. 0 \$ % " + 2 " * H \$ " 0) ') & (& (' / (& * " \$ ') 1 A \$ % % " + 2 " > A) % % & 2 & >) * & + (" + " 7 + % & * & + (" H S A 1 ; " ? " K \$) - " + 2 " S S 7 \$ & \$ (> \$ " . / % * " \$ 7 - \$ % \$ (* (+ * " A \$ % % " % H) (" % \$ O \$ (* K B 2 & O \$ " 7 \$ > \$ (* " T C 4 U V " + 2 " * H \$ " 1) K % " + 2 " \$ @ / & \$ 1 " 2 / A A B * & . \$ " % \$ - O & > \$] ") A * H + / ' H " % \$. \$ % * \$ % " N & A A " O \$ ") 1 1 \$ 1 " * + ' \$ * H \$ E " \$ O \$ (" & 2 " & (" % \$ 7)) * \$ % > H + + A " K \$) % E & (" > + . 7 / * & (' " K \$) - % " + 2 " % \$ - O & > \$; ")~~

∴;!;D;! " ~~Q (" & (% *) (> \$ % " N H \$ \$ " * H \$ \$ " H) % " O S \$ (" 7 - & + - > \$ * & 2 & >) * \$ 1 " % \$ - O & > \$ " & (" * H \$ " = & % * & > * E " K \$) - % " + 2 " % \$ - O & > \$ " & (" * H \$ " = & % * & > * % H) A A " O S " 1 \$ * \$. & (\$ 1 " O K " / % & (' " * H \$ " 1) * \$ " + (" N H & > H " * H \$ " * \$) > H \$ " . + % * " - > \$ (* A K " ^ + & (\$ 1 " * H \$ " = & % * & > * E ") (1 " * H \$ (" 0) > [1] * & (' " * H \$ ") ((& O \$ %) - K " 1) * \$ O K " * H \$ " (/ . 0 \$ - + 2 " K \$) - % " 7 - \$ O & + / % A K " % \$ - O \$ 1 " T O) % \$ 1 " / 7 + (" > / . / A) * & O \$ " % \$. \$ % * \$ % " 1 / & (' " N H & > H " * H \$ " * \$) > H \$ " % \$ - O \$ 1 " C 4 U " + " . + \$ " + 2 " * H \$ " * & . \$ V ; " Q ((+ " >) % \$ % H) A A " * H \$ ") ((& O \$ %) - K " 1) * \$ O \$ " \$) - A & \$ " * H) (" * H \$ " 2 & % * " \$ @ / & \$ 1 " 1) K " + 2 " % \$ - O & > \$ " & (" * H) * % > H + + A " K \$) - ; ")~~

∴;!;D;9"

∴!;!9"

)%"-\$2\$-\$1"*+!&("H\$"?77A&>)*&+(")(1"

<"

∴;9;`" ?AA"*)(%2\$ ")77A&>)(%E"/7+("\$>\$&7*+2"*HS"+22\$ "+2)"7+%&*&+("%H)AA" \$%7+(1"OK"D"7;. ;"+2"
*HS"(\$S*O/%&(\$%%"1)K;"Z &*H&("H&%"*& . \$">+(%*)&(*E"*HS"7\$ %+(.")K" \$@/\$%*"&(2+ .)*&+("
-\$')-1&('"*HS"%*)*/%" +2") (K"+*HS "7+%&*&+(T%V"2+ "NH&>H"HS,%HS")77A&&\$1E") (1"*HS" a / .) (" #
#\$%+ />\$%"M22&>\$%"H)AA">+ . 7AK"N&*H"%/>H" \$@/\$%*;"

"

∴;9;!5" Q2") ("77A&>)(*2)&AA%"*+)">>>\$7*+ " \$%7+(1"*+)"\$(*)*&OS")%%&'(-.\$(*E+ "NH\$(")AA")O)&A)OAS"
-.\$)(%" +2">+ . . /(&>)*&+("%7 +O\$"/(% />>\$%2/A"&(">+(*)*&('"*H)*")77A&>)(*E"*HS" a / .) (" #
#\$%+ />\$%"M22&>\$" .)K"7 +>\$1"*+ "HS"+*HS " \$2\$ \$1")77A&>)(*%;"

"

∴;9;!!" ?(K*\$)>HS-

>;= \$0\$A+7. \$(*)+2)77+7&)*\$&(2+.)&+(-'\$)-1&('6I#6E"HS)A*H"0\$(2&%"E")-(1"+*HS"-
-.)**\$ %;"

::<;9" ?AA" (+&>\$%"+2"O)>>(>&\$%"H)AA"0\$7-\$7)-\$1)"%"++(-)"%7+%%&0A\$)2*\$-0">>(>&\$%") (1"
7+%%&&+((%) "\$[(+N(E"NA*H"*HS"\$S>\$7*%+((H)"*O)>>(>&\$%"H)*"0\$>+.\$ [(+N(")(1")O)&A)0A\$"
)%")-\$%/A"+2"\$) AK-\$&\$-\$.\$(*,\$%&'(-)*&+(-(+&>\$%"\$*2+*H"(";<;!;9"NA&A"0\$7+%"\$1"+(-"
\\\$0-/) K"!4*H;"P)>H" (+&>\$%"H)AA"0\$)10\$-%&\$1"OK" a / .) (" # \$ % + / - > \$ % " M 2 2 & > \$ & (" * H \$"
2+AA+N&('"N)K%&d"

h — 8+%" + ("*HS"= &%* &>*NS0%&*\$"
h — P.)&A"*+*"HS"1\$%&'(-)*\$1"?%+%+&>)&+(-\$7-\$%\$(*)*&OST%V"
h — P.)&A"*+*"S">HS %""

? 10\$-%&\$. \$(*d" IHS"= &%*-&>*%H)AA") 10\$-%&\$"O)>>(>&\$%"+ ("&%" NS0%&*\$2+-(+ "AS%"*H) ("2+/-"
TDV"N+-["1)K%") (1" (+*&2K"/ (&*". \$. 0\$-%) (1"1\$%&'(-)*\$1"?%+%+&>)&+(-\$7-\$%\$(*)*&OS%"+2"
O)>>(>&\$%OK"\$.)&A;" ? 10\$-%&\$. \$(%"H)AA" . & (& .) AAK"& (>A/1\$)"1\$%>-&7*%&+ ("2"*HS"7+%%&&+ (E"
. & (& . / . "\$S7\$-&\$ (>\$E"/)A&2&>)*&+ ("-\$@/&-1E") (1"*HS"1\$)1A& (\$2+)-/77AK& ('E' / (AS%"*HS"
7+%%&&+ ("&%1\$%&'(-)*\$1)"%"+7\$ (" / (&A"2&AA\$1:""

::<;<" PS>\$7*2+-%/7A/%*\$>>HS "7A)>\$. \$(*) (1">+(*)*>\$1*\$>HS %"/()%&' (\$1"OK"? / / %*" !E" (+"
O)>>(>K">)("OS"2&AA\$1")%")-\$ / A) "%%&' (-.\$ (*"1/ & ("6*\$7%!") (1"9"/ (&A"&*H)%"0\$\$("
)10\$ %&\$1"& (")>>+ 1) (>\$"NA*H"\$%*)O&A%HS1"7 +>\$1/ \$%; "PA&'&O&A&Kd" i (&*". \$. 0\$-%) 77AK& (' "
./ %*" . \$\$". & (& . / . "\$S7\$-&\$ (>\$) (1"@/)A&2&>)*&+ (-\$@/&-\$. \$(%"*+OS">+ (%&1\$-\$1"2+)-"
O)>>(*"7+%%&&+ (; "\ / AAB* & . \$ / (&*". \$. 0\$-%& (")7+O)*&+ (-K"%)* / %")-\$ (+*"SA&'&OAS;"
a+N\$0\$-E"2/AA"+-7)-*B* & . \$"7+O)*&+ (-K"/ (&*". \$. 0\$-% .)K") 77AK"2+-7+%%&&+ ("2+-%*HS"
%>H+AA"K\$)-& ("NH&>H"*HSK")-\$"SA&'&OAS"+)*& (&7\$- .) (\$ (%)*%* / %;"

::<;<!"8)-*%& . \$\$. 7A+KSS%"j"7+O)*&+ (-K"+-7\$- .) (\$ (*"j)-\$)AA+N\$1"*+) 77AK"*+) (K"7+%%&&+ (" "
1/-& ("*HS"%>H+AA"K\$)-"H)"*N+/A1")AA+N"*HS . "+& (>-\$)%\$/7"*+!"!;5" \ IP;"

::<;<9" I" . & (& . &g\$1&%- / 7*%&+ ("*%* / 1\$ (%E"&2")"O)>> (>K"+>> / -% "1 / -& ("*HS"%>H+AA"K\$)-) (1"
+ / %&&1\$"+2"*HS">A+%\$1"7\$-&+1E"*HS"= &%*-&>*%H)AA"2&AA"*HS"7+%%&&+ ("N&*H") ("SS\$-(A)">) (1&1)*\$:"

::<;D" G+&>\$%"+2"F)>>(>&\$%"NA&A"0\$(-. 0\$-\$1"& ("*HS"+1\$"-+2"%%/)) (>\$;" ? 77A&>)*&+ ("7+>\$%&d"
PA&'&OAS"/ (&*". \$. 0\$-% .)K") 77AK"2+)"O)>> (>K"OK"% / O . & **& (' ") (" + (A& ('S') 77A&>)*&+ (; "

::<;4" ? (K" . +1&2&>)*&+ ("*") "G+&>\$"+2"F)>> (>K"H)AA" \$@ / & \$) ("SN"7+%%&& (' ") (1">) (>\$AA)*&+ (" +2"
) (K">+ . . & * . \$(%"O)%\$1"+ ("*HS"7-\$0&+ / % "G+&>\$"+2"F)>> (>K;" Q (\$*-O&SN"7+>\$%&d" IHS"
= &%*-&>* .)K"%SA\$>*%HS") 77A&>) ("NH+E"& ("*HS" / 1' . \$(*"2"*HS"%&*\$") 1 . & (&%*-)*+ - + - "
7+ - + - .) 1 . & (&%*-)*+ - E"OS%*" . \$\$%"*HS" (\$S1%+2"*HS"= &%*-&>* & ("2&AA& (")"O)>> (*"7+%%&&+ (; "

::<;L" ? "AA&%& (' "+2"7+%%&&+ ("2&AA\$1"%H)AA"0\$7 +O&1\$1"/7+ (" \$@ / \$%*" + "*"HS"6JI?" + ("*HS"2& %*") (1"
2&2*\$\$(*H"+2"\$)>H" . + (*H; IHS"= &%*-&>*%H)AA"+22\$-O)>> (*"7+%%&&+ ("*"+*"HS"OS%*"@ /)A&2&&\$1"
) 77A&>) (*" i (&*". \$. 0\$-% "NH+)"-\$+22\$-\$1")"O)>> (*"7+%%&&+ ("H)AA"H)OS"+ (S"TV"N+-[& (" "
1)K"*+-\$"7+(1"*+*"HS"+22\$-;" ?" / (&*". \$. 0\$-% "NH+"&%" (+*+22\$-\$1)"O)>> (*"7+%%&&+ (" .)KE"
/7+ (-\$@ / \$%*"E"-\$>\$OS"OS-O)"A"2\$S10)>["2+ . "*"HS" a / .) (" # \$ % + / - > \$ % " = 7) - * . \$(*)%*" + "NHK"
*HSK"NS-\$ (+%"\$A\$>\$1"2+-%*HS"7+%%&&+ (; "

":;<;C" IHS"7->+\$1/-"\$>+(*&(\$1"&("6\$>*k+("::<"%H)AA"(+*)77AK"+"6\$>*k+(%"::DB::L"/(A\$%"
%7\$>k2&\$1"*HS-\$k(:"

":D;! " IHS"&(k&k)A"1\$(k2k>)*k+(") (1"(+*k2k>)*k+("+2"/-7A/%"7\$ %+((\$A"NA"OS")>>+ . 7A&k%HS1"OK"
*HS" a / .) (" # \$ % + / > \$ % " M 2 2 k > \$ " (+ " A) * \$ " * H) (" * H \$ " \ k 1) K " + >> / k (" ' k (" * H \$ " 2 k % * 2 / A A " N \$ \$ [" k ("
? 7 k A E " k (% + 2) ") % " * H \$ K ") - \$ [(+ N (; " 8 \$ % + ((\$ A " k 1 \$ (* k 2 k \$ 1 " 2 + " % / - 7 A / % k (" ' % H) A A " O \$ " (+ * k 2 k \$ 1 "
N k * H k (" H \$ \$ T < V " 1) K % " + 2 " * H \$ " * k . \$ " * H \$ K ") - \$ k 1 \$ (* k 2 k \$ 1 ; " 6 / > H " (+ * k 2 k >) * k + (" % H) A A " > + (% k % * " + 2 "
N k * \$ (" (+ * k > \$ " .) k A \$ 1 " * + ") 1 1 - \$ % % " + 2 - \$ > + 1 ") (1 ") (\$.) k A " * + " * H \$ " N + [") 1 1 - \$ % % ; "

6 / - 7 A / % k (" ' .) K " + >> / - 2 + - * H \$ " 2 + A A + N k (" ' - \$) % + (% d "

) ; " - M O \$ " % *) 2 2 k (" ') * % > H + + A " % k * \$ % " T 6 / - 7 A / % " 8 \$ % + ((\$ A V ; "

0 ; " - # \$ 1 / > \$ 1 " 2 / (1 k (' " k (" % 7 \$ > k) A " 7 + ') . % ; "

> ; " - I H \$ " * \$. k () * k + (" + 2 ") (" e I ? " 7 + % k * k + (" + " % 7 \$ > k) A " 2 / (1 \$ 1 " 7 + % k * k + (" 2 + ") - \$ ' / A) - "
7 \$.) (\$ (* * \$) > H \$ " N H + " H) % (+ " k . . \$ 1 k) * \$ " \$ * / (" k ' H % * " + ") 7 + % k * k + (E " > A) % k 2 k >) * k + ("
+ -) " 1 \$ % k ' () * \$ 1 " 7 + % k * k + (; "

= \$ 2 k (k * k + (d " ? (" k (O + A / (*) - K % / - 7 A / % " * -) (% 2 \$ - " k % " + (\$ " k (" N H k > H " * H \$ " \$. 7 A + K \$ \$ " k % " & 1 \$ (* k 2 k \$ 1 " O K "
* H \$ " = k % * - k > E " > + (% k % * \$ (* " N k * H " * H k % " ? - * k > A \$ " : ; D E ") % % / - 7 A / % ; " " ? " O + A / (*) - K % / - 7 A / % " * -) (% 2 \$ - " k % "
+ (\$ " k (" N H k > H " * H \$ " \$. 7 A + K \$ \$ " O + A / (* \$ % - " * + " O \$ " * -) (% 2 \$ - - \$ 1 " k (% * \$) 1 " + 2 ") (+ * H \$ - " \$. 7 A + K \$ \$ "
O \$ k (" 1 \$ % k ' () * \$ 1 ") % ") (" k (O + A / (*) - K % / - 7 A / % " * -) (% 2 \$ - ; " " ? " % / - 7 A / % " * -) (% 2 \$ - " k % ") " O + A / (*) - K " + - "
k (O + A / (*) - K " * -) (% 2 \$ - + 2 ") / (k * . \$. O \$ - " k () > A) % % - + + . " * \$) > H k (' 7 + % k * k + (E " k (> A / 1 k (" * \$) > H \$ - "
- \$ % + / - > \$) (1 " * -) k (" % 7 \$ > k) A k % * E " 1 / \$ " * + + O \$ - B

~~*HS \$) \$>+ . 7\$AA(' " \$)%(%2+ "1+(' +*HS N&%SE"*HS"%&*\$")1 . &(&%*) *+ "%H)AA"1\$>A) \$"
%/ 7A/%"*HS"&(1&O&1/)"N&%H"*HS"\$) %* = &%* &>*%\$(&+ &*K"&("HS"/O\$>*) \$)+2"*HS"7+%&&+("
1\$>A) \$1"/-7A/%;"G+*&>\$+2"*-)(%2\$-d" IHS"= &%* -&>*%H)AA" (+&2K"/ (&* . \$. OS-%+2"*HS& -"
%/ -7A/%*-) (%2\$- "TNHS*HS"-O+A/ (*)-K"+- &(O+A/ (*)-KV") (1"(\$N)"%&&' (. \$(*"OK"\$.)&A"/&(' "
HS"= &% -&>*%\$.)&A")11-\$%:"~~

~~∴;D;D;! "Q2"*HS"\$>HS "NH+ "%&"1\$>A) \$1"/-7A/%"H)"%\$ OS1"&(" (+*HS "/O\$>*2&\$A1"N&%H&("HS"
7 \$O&+ /%2&OS"K\$) %E"+ "H)"%") .)^+ " + " . &(+ " &(" (+*HS "/O\$>*2&\$A1E"*HS"\$>HS " .)K"
>H+ + %\$"+ "OS">+ . 7) \$1"&(" (K"+2"*H+ %\$2&\$A1%+ ("HS"O)"%&&"+2"= &%* &>*%\$(&+ &*K"2+ "%/ -7A/%"
1\$>A))&&+(-;"~~

~~∴;D;4" Q2"*HS"%&*\$")1 . &(&%*) *+ "1\$>A) \$ %"/-7A/%") (&(1&O&1/)" +*HS "*H) ("HS"+ ("N&%H"*HS"\$) %*"
= &%* &>*%\$(&+ &*K"*HS"%&*\$")1 . &(&%*) *+ "%H)AA"& . . \$1&)*\$AK"7A)>\$"&("N &&("HS" \$)%(%2+ "
%/ >H"1\$>A) &&+ ("(1"*) (% . &*%*HS . " + "HS" a / .) (" # \$ % + / - > \$ % "M2&>\$") (1"* + "HS"\$>HS "T%V"
&(O+&OS1; "IHS"= &%* -&>*%H)AA">+ . 7AS\$"*HS"6/-7A/%"I-)(%2\$- "7-+>\$%E"& (>A/1&(' ")AA" I (+N(""
O)>)> (>\$%E"OK"X)->H"!4E"&(" (+ (BA)K+22"K\$)-%:" i (&* . \$. OS-%"NH+)-\$ (+*%*) (%2\$--\$1"OK"
*HS"\$ (1+2"*HS"6/-7A/%"I-)(%2\$- "7-+>\$% "%H)AA"OS"7A)>\$1"&(")O)&A)OAS"7+%&&+ ("2+- "NH&>H"
HS,%HS"&@ /)A&2&\$1"& (" % \$ (&+ - &*K"+ - 1\$-E') % "1\$*- . & (\$1"OK"*HS"= &%* -&>*% ; "Q(")K\$)-& ("NH&>H"*HS"
= &%* -&>*% ">+ (1 / > %) "A)K+22"+2">\$- * &2&>)*\$1"\$. 7A+KSS%) (1"%&/%"7-\$& . & () -K"A)K+22" (+&&>\$%"
*+ "\$. 7A+KSS%"+ (" + - "OS2+-\$"X)->H"!4E"*HS"*& . \$& (\$"2+- "%/ -7A/%*-) (%2\$- "%*2+- *H"& ("*H&%"
%\$>*&+ (" : D' %H)AA"OS"\$S*\$ (1\$1E"N&*H" (+&*&>\$+2"/-7A/%"7-+O&1\$1"*+ "\$. 7A+KSS%OS*NSS("X)K"
C") (1"!9E"\$. 7A+KSS%"/O . &*%& (' ") (K"-@ / \$ % * 2+- "O+A/ (*)-K"/-7A/%"OK" (+ "A)*\$- *H) ("X)K"
!DE') (1"*HS"/-7A/%*-) (%2\$- "7-+>\$% "N&*H"\$. 7A+KSS% "%H)AA"+>> / - "OS"NSS("X)K"!4") (1"X)K"
<5;"Q(")K\$)-*HS"= &%* -&>*% 1+\$%" (+*% ">+ (1 / > %) "A)K+22"+2">\$- * &2&>)*\$1"\$. 7A+KSS%E"*HS"/-7A/%"
*-) (%2\$- "7-+>\$% "N&*H"\$. 7A+KSS% "%H)AA"+>> / - "OK"X)->H"!4;"~~

~~∴;D;L ZHS(\$OS "*N+ "T9V"+ " . + \$7\$ %+(% "H)OS"*HS%) . \$%\$(&+ &*K") (f&('E"*HS"7\$ %+("*+ "OS"
1\$>A) \$1"/-7A/% "%H)AA"OS"1\$*\$. & (\$1"OK"*HS">)"%&& (' " +2"A+ %%; "6 / > H">)"%&& (' " +2"A+ %%; "N&AA") ["\$
7A)>\$"& ("HS"7 \$ % \$ (>\$+2)AA"7\$ %+(% "NH+ "H)OS"*HS%) . \$%\$(&+ &*K") (f&(') (1"NH+ ">+ / A1"
OS")22\$>\$1"OK"*H&% "7 +>\$%& ;"~~

~~∴;D;C IHS" a / .) (" # \$ % + / - > \$ % "M2&>\$"%H)AA"7 +O&1\$ "N & ** \$ (" (+&>\$") (1"\$.)&A" (+&>\$"+ "\$>HS "%
%/ O\$>*% + &(O+A/ (*)-K*) (%2\$ E"%*) && ("HS") / - \$ + 2"*HS"*) (%2\$ "N&*H" \$) + ("HS \$2+ \$E") (1"
&(2+ . & (' "*HS" . " + 2"*HS& " & ' H"* * 1) " . \$\$& ("N&*H"*HS" = &%* &>*% \$7 \$ % \$ (*) & OS " & 2"*HS"\$>HS "%+ "
-\$@ / \$ % % ;"~~

~~∴;D;:" Z &*H&(")2+ / BK\$) -7\$ &+ 1E"*\$>HS "%NH+ "H)OS"OSS("1\$>A) \$1"/-7A/%"2+ . ") \$ ' / A) "
7+ %&&+ ("H)AA"O\$"7 \$2\$ \$ (>\$&(" \$ / - (& (' "*+ "HS"%>H+ + A"2 + . "NH& "H"*H&K"H)OS"OSS(""
%/ 7A/%\$1; "I\$)>HS "% .)K">+ . 7AS\$"*HS")77A&>)"&&+ (") (K)*& . \$1/ & (' "*HS"2+ / "TDV"K\$) "
7\$ &+ 1">+ . . \$ (>& (' " + ("HS& "&(O+A/ (*)-K"/-7A/%"1)*\$Tb/AK"!V; ""~~

~~∴;D;`" d""IHS"2+AA+N& (' "7 +>\$1/ \$ % "%H)AA"OS"/%\$1"\$S\$>\$7*NHS \$& (" "
>+ (2&&>"N&*H">+ . 7\$AA(' " \$)%(%; " a +N\$OS E"*HS"\$7 +O&&+ (% "1+ ("*)77AK"+ "1\$>A))&&+ (" "
+2"/-7A/% "%*)22")>H+ + A) (1") (&(O+A/ (*)-K*) (%2\$ "NHS \$ "HS"+ *)A" / - . OS "+2"= &%* &>*% &>*% "
7+ %&&+ (% "H)"%") (+*OS\$ (" \$1 / > \$1; "IHS"7 +O&&+ ("N+ / A1")77AK+ (AK"&2"*HS"+ *)A" / - . OS "+2"
>+ / (%\$& (' "7+ %&&+ (% "H)OS"OSS(" \$1 / > \$1; "~~

∴;D;`;! "ZHS("HS"(/.0\$ "2"\$AS . \$(*)K">+/(%\$A+ "7+%%&*%+(%"&%"-\$1/>\$1"&(")(+(BA)K"+22"%&*/)*)&+(" T%>H++A">A+% / \$E">+(%+A&1)*&+(E"+ "+O\$ %*)22&('VE"*HS"AS)%*"%\$(&+ "\$AS . \$(*)K">+/(%\$A+ T%V" NH+ "%,))\$>\$1\$(*&)A\$1")(1"\$S7\$ &\$(>\$1")%"")>A)%%+ + . "\$\$)>HS "N&AA"O\$ "1\$>A) \$1"%/-7A/%") (1"7A)>\$1"& ("HS"%/-7A/%"\$)\$>HS "7++A;"

"

"

6*\$7"!%H)AA"O\$'k("(\\$0 /) K"!%*) (1%H)AA>+(>A/1\$"+(" ?7 &A"!5*H;" ? (K"7+%&&+ ("*H)*
N)%7+%\$1"\\$0 /) K"!%*+)2*\$ "0/"O\$2+ \$" ?7 &A"!5*H"%H)AA"O\$7) *+2"6*\$7!" ;F)>)>(>&\$%"
H)\$H\$ =&&* &>*N)%".)1\$)N) -\$+2"7 &+ "*" "\\$0 /) K"!%*E"NH&H" +>> /- \$1"1/ & ("*H\$"
>/- \$(*%>H+ +A"K\$) E"%H)AA"O\$'k(>A/1\$1"1/ & ("6*\$7!" ; ?0)&A)O!\$7+%&&+ (%%H)AA"O\$")%" "
-\$%/A*"+2"M(\$B6*+7"%*)22k('E-\$*k \$. \$(*, \$%&')&+ (%"(+&>\$%) (1") (K"+*H\$ - \$)%+ (%2+ "
NH&H"O)>)>(>&\$%"\$S&%; "IHS" =&&* &>*%H)AA">+ . 7A\$*\$H\$M(\$B6*+7"%*)22k('7 +>\$%O"OK" (+ "
A)*\$ "%H) (" \\$0 /) K"!4*H%+ "%H)*%*H+%\$7+%&&+ (%".)K"O\$'k(>A/1\$1"*H\$6*\$7!"7 +>\$%O;" ? (K"
%/O%\$@/\$(*O)>)>(>&\$%" +>> /- & ("')2*\$ " ?7 &A"!5*H"N&AA"O\$".)1\$)O)&A)O!\$*+ " \$.)& (" "
%/-7A/%"*\$)>H\$-%"

!!!

∴;4;!∴:"Q2")AA*H+%\$-\$2\$-\$1"2+)"7+%&*k+("1\$>A&("\$*HS"+22\$-2+ "\$HS"7+%&*k+("A\$)O&("+"7A)>\$-\$("\$*
7+%&*k+O&E"\$HS("\$*HS"7+%&*k+("N&AA"O&\$&(>+7+)*\$1"(&*\$+*HS"/7A/%"7+>+%&*;"

∴;4;!∴:"6\$A\$>*k+("2+.")-+("\$*HS">)(1&1)*\$%"H)AA"O&\$".)1\$"OK"*HS"=&%* &>*7 &(>&7)A"+"
1\$%&'(\$T%VE"O)%\$1"+(")(1"2+AA+N&("\$*HS" \$>+.".\$(1)*k+("2+."*HS"&(\$ O&\$N"7)(\$A;"IHS"
&(\$ O&\$N"7)(\$A"+1\$%&'(\$T%V"%H)AA"&(>A/1\$d"

);" IHS"7 &(>&7)A"+ "1\$%&'(\$S\$]"

0;" 0) ')&(&'B/(&*". \$. O\$ T%VE"2+."*HS">H++A"%&SE"\$A\$>\$1"OK"*HS"O) ')&(&' / (&*%&*)22"
)%&&'(\$1")*HS">H++A"%&\$]7 &+ &K"%H)AA"O&\$"*+ "&(>A/1\$' -)1\$"A\$O\$A") (1,+ "%/O\$>") \$)E"
NHS"\$)77A&>)O&\$;"

>;" ?*(\$NAK"+7\$(\$1"%&*SE"6J I ?"N&AA")77+&(*7)(\$A". \$. O\$-%;"

1;" M*HS"7) *k>&7)(%"/./)AAKB)'-\$1"/7+("OK"*HS"7 &(>&7)A") (1"6J I ?B-\$7-\$%\$(\$)*O&\$"+(" *HS">+." &*S\$;"

∴;4;9" _____"

JA)%% + + . "7+%&*k+ (%*H)*"O&\$>+ . \$"O)&A)O&\$"+ "7\$(")%"- \$%/A*" + 2" &(B=&%* &>*7\$ -.)(\$(\$*" >A)%% + + . "\$>)HS "%&)>>\$7& (&'7+%&*k+ (%)*+ *HS "%&*\$%,\$1\$7) * . \$(\$%E"7\$ "∴;4;!N&AAE")2*\$ ") (K A+>)A")%&&' (. \$(\$>H)('\$%E"O&\$&(>+7+)*\$1"(&*\$+*HS"/7A/%"7++A;"

PA&' &O&AA* K"2+-"*-)(%2\$d"-i (&*". \$. O\$-%" . /%*" . \$\$*" . & (& . / . "\$S7\$-&\$(>\$") (1"@/)A&2&>)*k+(" -\$@/&-\$. \$(\$%") (1 .)K" (+*O&\$& ("7-+O)*k+(-K"%&)* /%& ("+-1\$-""OS"\$A&' &O&\$"2+-"*-)(%2\$-& (&+ O)>)(*"7+%&*k+ (%E"\$S>\$7"*H)*"7-+O)*k+(-K"/ (&*". \$. O\$-%" .)K")77AK"2+-"O)>)(*"7+%&*k+ (% 2+-"*HS">H++A"K\$)-&("NH&>H"*H&K")-\$"

1;"

!D"

"
0;" ~~0) ')&((' B / (&* " . \$. 0\$ T%VE"2 + . " *HS" %>H + + A" %& *\$E" %\$A\$ > *\$1"OK" *HS"0) ')&((' " / (&* " % *) 22") % % & ' (\$1") * " HS" %>H + + A" %& *\$J"7 & + & *K" %H) AA"0\$ * + " & (> A / 1\$ " ') 1\$ "A\$0\$A") (1, + " % / 0^ \$ > *) - \$) E" NHS \$ ") 77 & >) 0A\$; "~~
"
> ; " ~~? * (\$N&K" + 7\$ (\$1" % & * \$ % E" 6J I ? " N&A") 77 + & (* 7) (\$A" . \$. 0\$ % ; "~~
"
1 ; " ~~M * HS " 7) * & > & 7) (* % " . / * /) &&KB) ' \$\$1" / 7 + ("OK" * HS" 7 & (> & 7) A") (1 " 6J I ? B \$ 7 \$ % \$ (*) * & 0\$ % " + ("~~

P1/>)*&+("OK*H\$a / .)("#\$%+ /->\$%M22k>SE"/7+("HS-\$>+ . . \$(1)*&+("2%*)22"ASOSA"
k(%* />k+())1 . k(k%*)*+ %;"IHS\$)%+(%2+ ") (K\$>+ . . \$(1\$1*) (2\$ "+*H\$*H)("2+ "
-\$)%+(%"+2% / 7A/%%H)AA"OS"1\$Ak(\$)\$1k("N k&k('"OK*H\$%*)22"ASOSA"k(%* />k+())"
)1 . k(k%*)*+ %") (1"1\$AAOS \$1"*+ "H\$a / .)("#\$%+ /->\$%M22k>\$"NHk>H"%H)AA"7 +0k1\$")>+7K"
+ "H\$")22\$>\$1\$>H\$ %;"6/>H"7\$ %+((\$A%H)AA"OS"*) (2\$ \$1k(*+) ("SSk%k('"O)>)(>Kk(""
NHk>H"*H\$K"N&AA"OS")OAS"+7\$ 2+ . . " + "\$22\$>*kOSkK;"
"
" ?%"+ + ("%)(")1 . k(k%*)*+ "*") (2\$ "%k"OSk('">+(%k1\$ \$1"OK*H\$a / .) ("#\$%+ /->\$%"
=7) * . \$(E"O/" (+ "AS%*%*H) ("Hk *K" T<5V" N+ [k ('"1)K"%2+ . "H\$"k (k%k)*k+ ("2"*H\$"
)1 . k(k%*)*kOS"*) (2\$ E"*H\$"%k*\$")1 . k(k%*)*+ "+" a / .) ("#\$%+ /->\$%" \$7 \$%\$ (*) *kOS" T+ (AK"
OK"1k \$>k+ ("2"*H\$a / .) ("#\$%+ /->\$%"=7) * . \$(*"N&AA" . \$\$*"N&H"*H\$"\$. 7A+K\$\$"+d"
"
) ;" Q(2+ . . "H\$"\$. 7A+K\$\$"+2"*H\$"7 +0A\$.]"
"
0;" PS7 \$%%" \$) %+(%*"H)*") (")1 . k(k%*)*kOS"*) (2\$ "%k"OSk('">+(%k1\$ \$1") (1"NH")>*k+ (%"
N+ /A1"AS)1"*+) (")1 . k(k%*)*kOS"*) (2\$ -]"
"
" ZH\$(\$OS "7+%kOASE">\$ *k2k>)*\$1"\$. 7A+K\$\$%"N&AA" (+*"OS" . +OS1"N&H+ /"*H\$& ">+(%\$(E) ("1"
N&AA"OS"&OS(")AA")O)kA)OAS"+7*k+ (%) %*+ "NHk>H"%k*\$"*H\$K"N&AA"OS" . +OS1;"IHS"7) *k(\$%) ' "\$"
H)")1 . k(k%*)*kOS"*) (2\$ %" .)K"OS"\$22\$> /) \$1"N&H" + "N&H+ /"*\$. 7A+K\$\$">+(%\$(;"
"
IH\$="k%*-k>* .)K*-) (2\$-)" / (k* . \$. OS-"OS>)/%"+2%/O%*) (1)-1"7\$-2+- .)(>\$"+-+*H\$-"
>+(>\$-(-'\$)-1k('"H&% ,HS-)O&A&*K"*+ % />>\$%2/AAK"7\$-2+- . "H\$"1 / *k\$%"+2"H&% ,HS- "7+%k&k+ (;"
IH\$-\$)%+(%"+2- "H\$"*-) (2\$-%H)AA"OS"7 +0k1\$1"*+ "H\$a / (k* . \$. OS-"&("N-k&k('")%"+ + (" "
2\$)%kOAS"7-k+-"*+ "H\$"*-) (2\$-;" ? "%k*\$")1 . k(k%*)*+ "-+ " a / .) ("#\$%+ /->\$%"-\$7-\$%\$ (*) *kOS"
%H)AA" . \$\$*"N&H"*H\$"/ (k* . \$. OS-"*+ "\$S7A)k ("H\$-\$)%+(%"+2- "H\$"*-) (2\$-%) %"+ + (") %2\$)%kOAS"
7-k+-"*+ "H\$"*-) (2\$-;" i (k* . \$. OS-%%H)AA"OS"*-) (2\$--\$1k (*+ "\$S&%k& ('"O)>)(>&\$%"+2- "NHk>H"
*H\$K")-\$"@ /)A&2&\$1:"