!

!

!

SCHOOL OF INFORMATIO !

!

!"#$%&'()*+",-.* // 0*/1/2*

+33456'(*#7*.8'*9'*:;<-*=>?'*:;(* =>?'*5@*.8'*A4565-*)*",-.* // 0*/1/2*

!"#$$%&$'&()'$*+,-$&

"#$%!%&!%()*+#&,-#!.#/0#1!2'+.3!4-0)#-05

!

!"#$"%&'(#)*+,#-./#0123'45"6#78988:;#+,1#<6*=1>?*+(#"@#A"3+,#B'">*C4#*6#4$$">C#46$1#)*+,#A+4+1#'4)9

#

!,1#A$,""#"@#J6@">%45"6#)*"#@/#0123'45"6#78988:#46C#"#$%&'"%()*#")!#(+%.'"%)/%01%2)

3+)456*+,#>124>C#+"#4"#4?&1$+?#"@#G!0;#*6$'3C*62#!*%*62#46C#K'*2*F*'*+(;#0!=*1)#01I3*>1%16+

G>"$1??#01I3*>1%16+?;#.3+$"%1?;#L"6*+">*62#46C#01&">562

#

M*+,#>124>C#+"#G!0#>1=*1)#$A"B'#123'45"6#A1$5"6#JJD:EDFE#?+4+1?N

#

51.$%)+%.'"%&)*3$'7+8)3+)+9%)4.10%"(1+8)#*)5#'+9)67#"1&3)'.&%":#)3..'37);%"1+)%037'3<#.()

=#(+,+%.'"%>)1+)1()%?=%$+%&)+93+%.'"%)=%(1%2)$"1+%"13)*#")3)$#;="%)8%3)1)0%)@

"%01%2)(9377)A%)A3(%&)#.)$""%.+78)3=+,7%0%&7)1+)$#,7%0%7)$"13)$#.(1(+%.+)21+9)

"3.B)3.&)3((1:.%&)&'<%(C)D037'3<#.()(9377)A%)A3(%&)#.)"3<.:)$3+%:#",1%()%)!#(+

/%01%2)EFG)/%:'73<#.)HICIIJ)#")*#77#2)'.10%"(1+8)7%0%7):'1&3.$%)="#01&%&)1.)(%$<#.)KJLK

#

O$$">C*62'(#+,1#A$,""#"@#J6@">%45"6;#)*+,#$"6$3>>16$1#"@#?#C1#@#&3C(#$>*+1>*4#D?11#

4P4$,1C#C"$3%16$1#"@#7)#*)M.*#";3<#.)!#(+%.'"%)/%01%2)K!-/L)D037'3<#.)N3E#1#@#"4$,#

$"%&>1,16?*=1#(1>#G!0#>1=#E1?1C#"6+?#$3>>16+'(#4&&>"=1C#$>*+1>*4#@">#!163>1#R#G>"%"5"6#

D!RGE6C#O6634'#K=4'345"6?;#4?#?&1$*S1C#$"6?*?+16+#)*+,#>46T#46C#M?*?;#2612#C351?9#

+,1#3?1#"@#+,1#A$,""#"@#J6@">%45"6U?#!RG#$>*+1>*4;#+,1#G!0#)*"#6"+#*6="=1#1V+1>64'#>1=*1

F3+#+,1#RG#$>*+1>*4#)*"#F1#3?1C#4?#4#F16$,%4>T#@">#2161>4'#&1>@">%46$1#1V&1$+45"6?9

#

!,1#G!0#4??1??%16*"#F1#F4?1C#"6#4#W>1=*1)#&4$T1+X#$"%&"?1C#"@#+,1#@"#)*62#%4+1>*4'?N

#

!! !,1#@4$3'+(#%1%F1>U?#64>>45=1#>1$">C#"@#4$$"%&'*?,%16+?#@">#+,1#&4?+#S=1#(14

36*=1>?*+(1?*264+1C#+1%&'4+19#!,*?#64>>45=1#)*"#,4=1#4#%4V*%3%#'*%*+#"@#7Y;888#

$,4>4$+1>?#9##

#

!! !,1#'4?+#S=1#(14>?#"@#46634'#&1>@">%46$1#>1=*1)?#F(#+,1#Z*>1$+">;

#

!! !,1#@4$3'+(#%1%F1>U?#$3>>*$3'3%#=*+41##D6"+#+"#1V$1&4$1&4$1?#?*62'1

#

!! !,1#@4$3'+(#%1%F1>U?#C*?$*&'*64>(#>1$">C#D*@#46(#1V*?+?E#*6#+,1*>#&1>?"661'#S'1

+,1#&4?+#S=1#(14>?#+"#16?3>1#$"%&'*46$1#)*+,#?+4+1#'4)?;#-"4>C#"@#/"=1>6">?U#

>123'45"6?;#46C#36*=1>?*+(#>123'45"6?#46C#&"'*$*1?9#.6'(#?3F?+4654+1C#C*?$*&'*64>(#

%4P1>?#)*"#F1#$"6?*C1>1C#@">#+,1#&3>&"?1#1C1>6'3@1#4#&=*1)9

!"#$$%&$'&()'$*+,-.$) &

!"#$%&'#()*+,*-+.(/*01+&#23*4*5676*8*0+91%&*:$%&*;%&*<=%&*>757*4*?3@A3;*0B*CCDE67*

F>GHIJ5CI67*4*#J',J%2. *

!
!
!
!
!"#$%&'(&)*$&+,-&"##$##.$()/&"(&012-344&5"6(7&89::&;$&"##97($%&<#9(7&)*$&=>?'9()&'5%9(":&#@":$&
#?$@9A$%&9(&BCDE##&+'#)>,$(<5$&-$F9$8&G+,-H&5$7<:"6'(&IIGJHG@HK&

!"#$$%&$'&()'$*+,-.$) &
!"#$%&'#()*+,*-+.(/*01+&#23*4*5676*8*0+91%&*:$%&*;<=%&*>757*4*?3@A3;*0B*CCDE5F7C7>*
F>CEGHI5FCI67*4*#J',J%2. *