

! ""#"" \$ #%&' (#)*+&',*+ '-& ./#%&'0#1+%2%3'
4%'56#7"896*:*38' ; 1<*+'
=>?@A=>?B' ! 91/#\$29'C#1+'
,

#\$%&'(") *+, -%&' +." / 011, -2304'5"
6407(2204"07"62*850109*" / 5&,4:" ; (\$&4' < (- "07"=(5&>,04&1" ?8, (-8(2"
"

@&<(2"?'. "@&<(2:"6407(2204"07"62*850109*" A (1,22&" ?8,481(: "B2208,&'("6407(2204"07"62*850109*" "
"

4%&*+ / .9&2*%'
,

C5,2"&8&% (<,8"*(&4"4(&1,D(%", <\$04'&- "85&-9(2", -"5("8E44,8E1E<"704"\$2*850109*" <&F042" 90, -9"7043&4%."C5(2("85&-9(2" <&4G"5("7,42"'" , <(",-" &"1(&2"'"!H"*(&42"5&"'5("8E44,8E1E<" 5&2")((-"(I&<,-(%", -"5,2"3&*"&-%<0%,7,(%." J0, -9"7043&4%:"62*850109*" <&F042"3,11") (4(KE,4(%""0"85002("740<"&<0-9"70E4" / 0-8(-'4&' ,0-2L"" / 1, -,8&1:"MI\$(4, <(-'&1:"?08,&1:"&-% J (-4&1."C5(2(" / 0-8(-'4&' ,0-2"&4("I\$1&,-(%", -"B\$\$(-%,I"H."N(")(1,(("&5&"'5(2(" / 0-8(-'4&' ,0-2"3,11"\$40>,% ("%,4(8',0-"704"2'E% (-'2"&2"5(*"\$1&- "5(,4"304G", -"5(" <&F04:" &-%"&2"5(*) (9, -"0"80-' (<\$1&' ("5(% ,4(8',0-"5(,4"8&4((42"3,11" &G("0-8("5(*"94&%E&' (" 740<"A,11,G,-"#-,>(42,'*"C5(*"\$&4&11("1"5(" <&F04"4(&2"07"\$2*850109*" :&-%"5(*"&4(" 80-2,2'(-"3, '5"5("2G,112"&-%(I\$(4',2("07"5("54(("8E44(-"\$407(22042", -"5(" (%(\$&4' <(-'." 0" ,2"0E4"50\$ ("5&"'5(2(" / 0-8(-'4&' ,0-2"3,11"&120"5(1\$"3, '5"81&4,7*, -9"0E4"4(84E,' , -9" (7704"2"&2"\$402\$(8',>("2'E% (-'2"8&- "94&2\$"5(">&4,0E2"&2\$(8'2"07"\$2*850109*"0-"35,85"5(*) <&*80-8(-'4&' ("C0"&85, (>("7E11*"5,2%>,2,0-"07"5(% ,28,\$1, -(: (,95"'" - (3"80E42(2"3 (4(" &%% (%L""62*850109*"07"B%E1"500%&-%B9, -9P" / 5,1%&-%B%01(28(-"62*850109*"P" 64&8',8E<"", -" / 1, -,8&1"62*850109*"P0-'40%E8',0-"0" / 1, -,8&1"62*850109*"P"Q(2(&485" ?(<,-&4"R=(9,--, -9"&-%B%>&-8(%SP"?08,&1" / 09-, '0-P"?'(4(0*\$, -9"&-%64(FE%,8("N5,1(" '5,2"\$4(2(-"B22(22<(-"Q(\$04" ,2")&2(%"0-"5("01%"8E44,8E1E<:"&-*"&22(22<(-"07"5("\$&2" &8&% (<,8"*(&4"30E1%)"(-,80<\$1('3, '50E" &8G-031(%9<(-"07"5("7704"2"07"5("7&8E1'*" '0"\$4(\$&4("&11"5("08E<(-'2"-((%("0"\$40\$02("5("85&-9(2." "
"

DE#9. &2F#'- . \$ \$ 1+8'
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C5,2"&22(22<(-"4(\$04"0-"5("\$2*850109*" <&F04"(I&<,-(2"2'E%(-"1(&4-, -9"%E4, -9"5(" ?'TU!VW!X"&8&% (<,8"*(&4."YE4"&22(22<(-"07"2'E%(-"\$ (4704<&-8("\$40>,% (%)>,% (-8(" '5&"'2'E% (-'2"<("04"(I8((%("0E4")>&1E&' ,0-") (-85<&4G2"704" (&85"07"5("Z"1(&4-, -9"90&12." C5("8E44(-'2'&'E2"07"0E4"&22(22<(-"%"&'&:"E2, -9"5("\$ (4704<&-8(",-%,8&'042:"30E1%)"("&" '5("J4((-"+(>(1:"<(&-,-9"5&'3 ("5&>("% (<0-2'4&' (%"&880<\$1,25<(-"07"2'E%(-"1(&4-, -9" 90&12:")E"5&>("0- ("&4(&-((%, -9"&'(' ,0-."YE4"\$1&- "704", <\$40>, -9"5&"'4(&' ,2%,28E22(%) (103." "
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?G' -& . /#%&' 0#1+%2%3'H*1:''2%&6#7"896*:*38' ; 1<*+'
"

""C5("54(("1(&4-, -9"90&12"704"5("62*850109*" <&F04"&4(L"
,

!. ""?'E% (- '2"3, 11"% (<0-2'4&' ("5("4&), 1, '*"'0"%2', -9E, 25") ('3 ((' -0- W28, (-', 7, 8">." 28, (-', 7, 8"&\$40&85(2"0" <, -% "&-%) (5&>, 04"&-%"84, ', KE("5("2, <, 1&4, ', (2" [" % , 77(4(-8(2") ('3 ((' -"\$2*850109*"&-%"0'5(4"28, (-8(2." "

T. ""?'E% (- '2"3, 11"% (<0-2'4&' ("5(, 4&), 1, '*"'0"E-% (42'&-%"84, ', 8&1">&4, &)1(2"5&" ", -71E(-8(" <, -% "&-%) (5&>, 04"740 <"5(" \ "804(" &4(&2L"), 0\$2*850109*:"1(&4-, -9"&-%" 809-, ', 0-:"% (>(10\$ <(-'&1]208, &1"\$2*850109*:"&-%"&\$1, (% "\$2*850109*:"&-%" (>&1E&' ("5(04(' , 8&1"04, (-'&', 0-2"3, '5, -"'5(2("&\$40&85(2." ""

Z. ""?'E% (- '2"3, 11"% (<0-2'4&' ("5(, 4&), 1, '*"'0"\$ (4704 <"\$2*850109, 8&1"4(2(&485." "C5&" ", -81E%(2"2E4>(*, -9"5("1, '(4&'E4("0-"&'4(2(&485"0\$8"E2, -9"\$407(22, 0-&1"%&'&)&2(2" R2E85"&2"62*80 ^ _Y"&-%"6E) A (%S:"% (>(10\$, -9"&-%"&\$40\$4, &' (" (<\$, 4, 8&1"4(2(&485" % (2, 9-:"80-%E8', -9"5("2'E%*", -"&-(" '5, 8&1" <&- (4:"&-%"&-&1*D, -9"&-%"4(\$04', -9" '5(, 4"%&'&'&-%" , -'(4\$4(' &', 0-2", -"&8804%&-8("3, '5"'5("\$407(22, 0-&1"2'&-%"&4%2"07"'5(" % , 28, \$1, - (." ""

C5("\$2*850109*7&8E1' *&4("80 <<, '("%'0"5(" A, 11, G, -" <, 22, 0-"&-%"5&>(" (2, 9- ("&" 8E44, 8E1E <"3 5, 85", -' (-', 0-&11*" \$4(\$&4(2" <&F042"704"\$407(22, 0-&1"2E88(22:"% (<084&' , 8" 8, ', D(-25, \$, -"&"910)&1"80 <<E-, '*:"&-%"&"\$ (420-&1"1, 7("07" < (&- , -9"&-%">&1E(")*" \$40%E8, -9"94&%E&' (2"3 50"&4("8&\$&)1("07"'5, -G, -9"84, ', 8&11*"740 <"&"\$2*850109, 8&1" \$ (42\$(8', >(. ""

62*850109*"94&%E&' (2"&85, (>("5("90&1"07"! "#\$%&&'#() *+&, --%&&")*"% (<0-2'4&', -9"5(, 4" &), 1, '*"'0L"
"

&."%2', -9E, 25") ('3 ((' -0- W28, (-', 7, 8">." 28, (-', 7, 8"&\$40&85(2"0" <, -% "&-%) (5&>, 04"&-%"84, ', KE("5("2, <, 1&4, ', (2" ["% , 77(4(-8(2") ('3 ((' -"\$2*850109*"&-%"0'5(4"28, (-8(2." "

). ""E-% (42'&-%"84, ', 8&1">&4, &)1(2"5&" ", -71E(-8(" <, -% "&-%) (5&>, 04"740 <"5(" \ "804(" &4(&2L"), 0\$2*850109*:"1(&4-, -9"&-%"809-, ', 0-:"% (>(10\$ <(-'&1]208, &1"\$2*850109*:" &-%"&\$1, (% "\$2*850109*:"&-%" (>&1E&' ("5(04(' , 8&1"04, (-'&', 0-2"3, '5, -"'5(2(" &\$40&85(2." ""

8. ""% (<0-2'4&' ("5(, 4&), 1, '*"'0"\$ (4704 <"\$2*850109, 8&1"4(2(&485." "C5&" ", -81E%(2" 2E4>(*, -9"5("1, '(4&'E4("0-"&'4(2(&485"0\$8"E2, -9"\$407(22, 0-&1"%&'&)&2(2"R2E85"&2" 62*80 ^ _Y"&-%"6E) A (%S:"% (>(10\$, -9"&-%"&\$40\$4, &' (" (<\$, 4, 8&1"4(2(&485" (2, 9-:" 80-%E8', -9"5("2'E%*", -"&-(" '5, 8&1" <&- (4:"&-%"&-&1*D, -9"&-%"4(\$04', -9"5(, 4"%&'&'&-%" &-%" , -'(4\$4(' &', 0-2", -"&8804%&-8("3, '5"'5("\$407(22, 0-&1"2'&-%"&4%2"07"'5(" % , 28, \$1, - (." ""

62*850109*" <&F042"3, 11"% (>(10\$&"% , 28, \$1, - (W) &2(% "E-% (42'&-%, -9"07"- ' . /% (&0'!"' (+) + I*#2)*+% (3"'"#(4% (.90&1")*L"
"

"

&."E-%(42'&-%"84,',8&1">&4,&)1(2"'5&'",-7IE(-8("<,-%"&-%") (5&>,04"740<"'5("\ "804(" &4(&2L"),0\$2*850109*:"1(&4-, -9"&-%"809-,',0-:"%(>(10\$<(-'&1]208,&1"\$2*850109*:" &-%"&\$1,(\$2*850109*:"&-%"(>&1E&'("5(04(' ,8&1"04,(-'&',0-2"3,'5,-'"5(2(" &\$40&85(2."""

).""%(<0-2'4&'("5(,4"&),1,'*"0\$(4704<"\$2*850109,8&1"4(2(&485.'"C5&'",-81E%(2" 2E4>(*,-9"'5("1,'(4&'E4("0-"&"4(2(&485"'0\$,8"E2,-9""\$407(22,0-&1%"&'&)&2(2"R2E85"&2" 62*80^_Y&-%"6E) A (%S:"%(>(10\$, -9"&-%&\$40\$4,&'("(<\$,4,8&1"4(2(&485%"(2,9-:" 80-%E8',-9"'5("2'E%*",-"&-"('5,8&1"<&--(4:"&-%&-&1*D,-9"&-%"4(\$04',-9"'5(,4"%&'&" &-%",-'(4\$4('&',0-2",-"&8804%&-8("3,'5"'5("\$407(22,0-&1"2'&-%&4%2"07"'5("%,28,\$1,-(."

"

62*850109*" <&F042"3,11"%(>(10\$"% ,280>(4"&-%"%(>(10\$"&"!%"&#()*+*\$%+##\$+4%)('(I+ 5+ 3)*, %+) *L""

"

&."E-%(42'&-%"84,',8&1">&4,&)1(2"'5&'",-7IE(-8("<,-%"&-%") (5&>,04"740<"'5("\ "804(" &4(&2L"),0\$2*850109*:"1(&4-, -9"&-%"809-,',0-:"%(>(10\$<(-'&1]208,&1"\$2*850109*:" &-%"&\$1,(\$2*850109*:"&-%"(>&1E&'("5(04(' ,8&1"04,(-'&',0-2"3,'5,-'"5(2(" &\$40&85(2."""

).""%(<0-2'4&'("5(,4"&),1,'*"0\$(4704<"\$2*850109,8&1"4(2(&485.'"C5&'",-81E%(2" 2E4>(*,-9"'5("1,'(4&'E4("0-"&"4(2(&485"'0\$,8"E2,-9""\$407(22,0-&1%"&'&)&2(2"R2E85"&2"

"

C5(4" 3 (4("HZ"62*850109*" <&F042"

-)+2%3'=>?B'

J* .+ "#'L'	J* .+ "#'5&:#'	4%'&+.9&*+''	D%+*:: \$ #%&'
6?!ZUU!"	0-'40%E8'04*"62*850109*"	?'. "@&<(2"	TX"
6?TU!U!"	? '&',2',8&1" A ('50%2" IW1,2'(%"	/011,-2304'5"	ZV"
6?TUTU!"	MI\$(4,<(- '&1"62*850109*"	?8,481("	!\\"
6?TfUU!"	Q(2(&485"?(<,-&4"	?8,481("	\\"
6?TfUUT"	0-'40%E8',0-"0"/1,-,8&1"62*850109*"	/011,-2304'5"	X"
6?ZUZU!"	/09-,'>("^(E4028,(-8("	?'. "@&<(2"	!V"
6?ZU\U!"	B%>&-8(% "MI\$(4,<(- '&1"62*850109*"	?'. "@&<(2"	!!"
6?ZUHU!"	?08,&1"62*850109*"	?8,481("	!V"
6?ZUfU!"	C(2'2"&-%" A (&2E4(<(- '"	/011,-2304'5"	!U"
6?Z!UUT"	64,-8,\$1(2'07"62*850\$&'50109*"	A8J&44*"	!\\"
6?Z\UU!"	+ ,7(2\$&- " ; (>(10\$<(- '&1"62*850109*"	Q0)(4'20-"	Tc"

"

C5(">(10\$<(-'&1"2'4&'(9*"07"0E4"8E44,8E1E<,"2"<02"(">,%(-'"',-'"5(4(2(&485"80E42(2:"
35,85"&4("81(&41*"2(KE(-',&1."N("'*\$,8&11*"&%>,2("2'E%(-'2"0"'"&G("=&2,8"? '&',2',82",-'"5("'
?&4,-9"07"'5("_4(25<&-"*(&4"04"'5("_&11"07"'5("?"0\$50<04("*(&4:"3,'5"MI\$(4,<(-'&1"
62*850109*"'"&G(-"%E4,-9"'5("?"0\$50<04("*(&4."B%>&-8("%?'&',2',82"&-%"B%>&-8("%'
MI\$(4,<(-'&1"62*850109*"'"&4("'"5(-'"&G(-"%E4,-9"'5("@E-,04"*(&4."?"'E%(-'2",-"B%>&-8("%'
MI\$(4,<(-'&1"62*850109*"')(-,"304G,-9"0-'5(,"4"/&\$2'0-(")*"85002,-9"&"4(2(&485"0\$,8"
&-%) (9,-,-,-9"0"(">(10\$'5('1,'(4&'E4("2E4>(*&-%"5("4(2(&485",2(17."0"2"(I\$(8'("%'5&"'
0-2', 'E',0-&1"Q(>,(3"=0&4%"&\$40>&1"3,11") ("20E95"'%E4,-9"'5&"80E42("C5(-'(-'"',2"'5&"'
2'E%(-'2"3,11") ("80<\$1('1*"4(&%*"0") (9,-"8011(8',-9"%&'&"704"'5(" /&\$2'0-("(&41*",-'5("'
_&11"07"'5(,"4"?(-,04"*(&4:"20"'5&"'5("\$40F(8"8&-") ("80<\$1('(:"34,"'(-:"&-%"4(>,(3("%)"*"
'5("7&8E1'"&%>,204") *"'5("(-%"07"'5&"'2(<(2'(4."=(8&E2("&\$1,8&',0-2"704"<&-*"94&%E&'("'
\$4094&<2"5&>("%(&%1,-(2") ('3((-";(8(<)(4"&-%"_)4E&4*"704"&%<,22,0-'5("701103,-9"
_&11:"'5,2"',<(1,-("\$4<,2"2'E%(-'2"0",-81E%("80\$, (2"07"'5(,"47,-&1"/&\$2'0-("\$&\$4"3,'5"
'5(,"4"94&%E&'("&\$1,8&',0-2."

"

"

"	/0-804%,&" / 011(9("	Q"	"	Q"	"	Y"
"	; 4E4*"# - ,>(42,'*"	Q"	Y"	Q"	Q"	Y"
"	M1<5E42" / 011(9("	Q"	"	Q"	"	"
"	J E2'&>E2"B%01\$5E2" / 011(9("	Q"	"	Q"	"	"
"	+E'5(4" / 011(9("	Q"	"	Q"	"	"
"	Y''(4)(,-" / 011(9("	Q"	"	Q"	"	"
"	# - ,>(42,'*"07"M>&-2>,1l("	Q"	"	Q"	"	Y"
"	# - ,>(42,'*"07"604'l&-%"	Q"	"	Q"	"	Y"
"	N5,'304'5"# - ,>(42,'*"	Q"	"	Q"	"	"

0#1+%2%3'H*1:'0"

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X"

, - '(-%'0", - '(4>(- ("200- (4", - "'5("2(< (2' (4'"0"&%>, 2("2'E%(- '2'"0"%40\$'5("80E42(", 7"
8,48E<2'&- 8(2"&4("\$4(>(- ', -9"'5(< "740<"80<\$1(',-9", "2&', 27&8'04, 1*."

"

! /F2"2%36"

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Q(2E1'2"07"'5("&%>, 2, -9"2E4>(*"704"?\$4, -9"d!X"&4("4(\$04'(%,"-C&)1("f.""0'(<2" 3 (4("2804(%
0-"&"HW\$0,- "'28&1("740<"!"p" g (4*" ; ,22&', 27,(%"0"H"p" g (4*"?'&', 27,(%.""_04"&11', '(<2:"'5(
&>(4&9(" 3 &2")(' 3 ((-"&"4&', -9"07"i?'&', 27,(%j"&-%&"4&', -9"07"i g (4*"?'&', 27,(%.j""RC5(2(
&>(4&9(2"&4("&84022"&11"7E11W', < ("7&8E1'*, -"'5(" ; (\$&4' < (- "07"=(5&>, 04&1" ?8, (-8(2.""
62*850109*"7&8E1'*&120"&%>, 2("20< ("2'E%(- '2", -" ` E<&- "? (4>, 8(2:"&-%" 3 ("5&>(- "0" 3 &*"0"
2(\$&4&' ("5("2E4>(*2")*" <&f04. ""Q&', -92"&4("2, <, 1&4"&84022"&11"% (\$&4' < (- "'7&8E1'*.S"

"

"

51I:#'06'' J1) "&*"#WK+#S.#%98'I8'H+1/#'

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B" Bw" =q" = " =w" / q" / " / W" ; q" ; " ; W" _"
Z" H" " T" " " " " " " " " T"

"

51I:#'P6''K2%1:' J* .+'#H+1/#''2%' (#'#1+96' - X2:.'" J* .+'#WK+#S.#%98'I8'H+1/#'
=&2,8"? '&', 2', 82"

B" Bw" =q" = " =w" / q" / " / W" ; q" ; " ; W" _"
f" !" " Z" " " " T" " " " " " " !"
" " " " " " " " " " " " " " " " "

B%>&-8(%"? '&', 2', 82"
B" Bw" =q" = " =w" / q" / " / W" ; q" ; " ; W" _"
c" " " !" " " " !" " " " " " " " "

=&2,8"MI\$(4, < (- '&1"
B" Bw" =q" = " =w" / q" / " / W" ; q" ; " ; W" _"
T" Z" !" c" " " " " " " " " " " "

!U"

"

!))#%/2E'?'['7"896*:*38' J1)"&*%#'7+*<#9&'(.I+29'\7-PU>]'

"

-&./#%&'0#1+%2%3' H*1:''	^* \$ 2%1:'	!/#S.1&#'	DE9#:#%&'
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H*1:'?'_ 'B),1,'*"'0"
 %,2',-9E,25")('3((- "
 -0-W

"

!T"

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,

!)#%/2E='['7"896*:*38' (#'#1+96' ; #&6*/'' ` 'a .1%&2&1&2F# ' !%1:8"2"' (. I+29'

"

!Z"

!)#%/2E'P'[Z#61F2*+1:-92#%9#"'!91/#\$29'!/F2"2%3'DF1:.1&2*%'

""""""N("&4(",-'(4(2'(%,-"*OE4"(I\$(4,(-8(2"3,'5"&"-E<)(4"07"7(&'E4(2"07""5("%(\$&4'<(-'."tOE4"
7((%)&8G"3,11"5(1\$E2",%(-',7*"35&"3("0"(77(8',>(1*"-%"35&"3("80E1%",<\$40>(.61(&2(")&G("&"
<0<(-""0"&-23(4""5(2("80-7,%(-',&1"KE(2',0-2"20"'5&"3("8&-304G""09('5(4"0"\$40>,"%(*OE"3,'5"
&"(\$&4'<(-""5&"4,(2"0"5(1\$*OE"&880<\$1,25*OE4"90&12."_01%"5,2"704<,-"5&17:"&\$("04"2'&\$1(",':"
&-%"4('E4-,"">,&"8&<\$E2"<&,1"0"5("%(\$&4'<(-'."C5&-G"*OE"704"*OE4"\$&4',8,\$&',0-u"

!H"

PS315 Sensation and Perception
PS332 Memory and Cognition
PS260; PS360 Special Topics (specifically designated Experimental Concentration)

4) The **Social Concentration** focuses