

5HJ 1R
1DPH

&RGH 1R

6HFRQG <H DU ± 0

DUFK

7LPH +RXU
&RRO RII WLPH 0

3DUW ± , , ,
&20387(5 6 & , (1 & (
0D[LPXP 6FRUHV

*HQHUDO ,QVWUXFWLRQV WR &DQGLGDWHV
 X 7KHUH LV D μ&RRO RII WLPH¶ RI PLQXWHV LQ DGGL
 X 8VH WKH μ&RRO RII WLPH¶ WR JHW IDPLOLDU ZLWK T
 X 5HDG TXHVWLRQV FDUHIXOO\ EHIRUH DQVZHULQJ
 X 5HDG WKH LQVWUXFWLRQV FDUHIXOO\
 X &DOFXODWLRQV ILJXUHV DQG JUDSKV VKRXOG EH V
 X 0DOD\DODP YHUVLRQ RI WKH TXHVWLRQV LV DOVR S
 X *LYH HTXDWLRQV ZKHUHYHU QHFHVVDU\
 X (OHFWURQLF GHYLFHV H[FHSW QRQ SURJUDPPDEOH I
 ([DPLQDWLRQ +DOO

39%e8¿•9 Áh;• >(8#;'9¿?f4jÁ

x '9¿f9Š 6,-q9'D (:/,9,'9,D <Á> 8)D o8-9.9h; í
 x <Á 8)D> ? 8%ejÁ (.9 ->t 8'; q.jÁ 6<f#"
 > w8'; (?-8 9h; í
 x q.jÁ 2;#;s#9'D;uD 8%ejÁ —"8(<¿x 38-9h" í
 x '9¿?f4jÁ ,;2;3'; —"8(<¿x 38-9h" í
 x "hD <n0; Áì 9f#jÁì f 8); Áì s93 q.?(t/9Á #>s
 o8-9.9h" í
 x ? 8%ejÁ ,0-81q90; '°g-9n;oD
 x 34e,;••0qD 6,38 ejÁ > 8 ;h" í
 x ?f(8f 8,; Á > w8'8 8q 8Àh;?0,/; Á 29> -;• .;
 0 D?f 8"9 D (."3; (:d87819Á (?-8 9h;38¾ (8 9yí

\$QVZHU DOO TXHVWLRQV IURP WR VFRUH HDFK
6KRZLQJ RQO\ WKH HVVHQWLDO IHDWXUHV DQG KLGLQJ
WR BBBBBBBBBB

1DPH WKH GDWD VWUXFWXUH ZKHUH PHPRU\ DOORFDW

7KH VSDFH EHWZHHQ FRQWHQW DQG FHOO ERUGHU LQ
DWWULEXWH

:KDW LV WKH H[SDQVLRQ RI /\$03 "

1HZ GRPDLQ QDPHV DUH FKHFNHG LQ WKH GDWDEDV
UHJLVWUDWLRQ

\$QVZHU DQ\ QLQH TXHVWLRQV IURP WR u VFRUH H
,GHQWLI\ WKH FRUUHFW HUURUV LQ WKH IROORZLQJ F
6WUXFW

^

LQW UHJQR

FKDU QDPH > @

IORDW PDUN

:KDW LV WKH GLIIHUHQFH EHWZHHQ VWDWLF DQG G\QD

:ULWH DQ DOJRULWKP WR DGG D QHZ LWHP LQWR D VW

:ULWH WKH +70/ FRGH IUDJPHQW WR LQVHUV DQ LPDJ
ZHESDJH

7KH IROORZLQJ FRGH LQ +70/ ZLOO FDOO WKH 6KRZ0HY
LQSXW W\SH 'EXWWRQ' YDOXH μVKRZ¶ RQ&OLFN '3
ORGLI\ WKH FRGH WR FDOO WKH 6KRZ0HVVDJH ZKHQ
D 8VHU PRYHV WKH PRXVH RYHU WKH EXWWRQ
E 8VHU SUHVHVH DQ\ NH\ RQ WKH NH\ERDUG

&RQVLGHU WZR VWULQJV (GXFDWLRQ LV WKH PRVW
FKDQJH WKH ZRUOG'

:ULWH -DYD6FULSW FRGH WR
D 6WRUH WKHVH VWULQJV LQ WZR YDULDEOHV
E &RPELQH WKH WZR VWULQJ YDULDEOHV

:KDW LV D SULPDU\ NH\ " :KDW LV WKH VLJQLILFDQFH

&RQVLGHU WKH JLYHQ WDEOH 632576 DQG ZULWH UH
TXHVWLRQV

3'	1DPH	*RDOV
	0DUGRQD	
	&DUORV	
	0HVVL	
	5REHUW	

*DPHV

D 6HOHFW WKH QDPH RI DOO SOD\HUV
E 6HOHFW QDPH DQG JRDOV VFRUHG E\ SOD\HUV ZK

1DPH WKH JOREDO YDULDEOHV XVHG IRU SDVVLQJ GDW

.; >3*D(9>α , "eq90³8-L9RILOH\$ M8J'D Á>t ;q;s#9
' ; • +70/? 8 D2;#; í

#8>2 (/ - ; s 70/ ? 8 D6KRZ0HVVDJ\$H -DYD6F)ULDSW
3919h;s;

LQSW W\SH ³EXWWRQ' YDOXH μVKRZ¶ RQ&OLFN ³
#8>2 (/ - ; s ? 8 %ejÁ'hD.9kD6KRZ0HVVD3.9H9h8¾ ? 8 D
(.9-.9h;

D -<6¿ ,E6D>α , ; 190;> 09t9h;?u8Áí
E -<6¿ :?*8 9>0 >#i90; :-9À ,¿q;?u8Áí

³(GXFDWLRQ LV WKH PRVWXSRZGUXXΘ ZHRDSRQJH WK
.oD-DYD66DLSW; 18"D
-DYD6F)ULDSW;#; í

D E 6fD9 ; 1;> .oD ?3.9-*91; 19À 6<d9h;
E E .oD ?3.9-*91; >1 6 ?-8 9t9h;

3ULPDU\$8AH\r8"D " .; /9?05'SAULPDU\;NHf(8&8'e
r8"D "

#8>2 8";s632576s ? *919>' 9•8',8h9 /9?05"À
D6D(5¾6D2;#;

3 '	1DPH	*RDOV	*DPHV
	0DUGRQD		
	&DUORV		
	0HVVL		
	5REHUW		

D y8 19h8.;> -; ,8(f.#D >#. >m ;h; í
E ? 819À < ;#À 9k 19D8H;>*R#D.Gvñ ;h; í

+773 *(73267UHTXHVM-8 9kD , >> ,8/8¾ (?-8 9h;s
?{8*À ?3.9-*91; Á >#8>h'-8"D

:KDW LV F\EHUVSDFH " +RZ F\EHUVSDFH KDV LQIOXHQP

:KDW LV \$UWLILFLDO 1HXUDO 1HWZRUNV "

\$QVZHU DQ\ QLQH TXHVWLRQV IURP WR u VFRUH H
5HDG WKH IROORZLQJ FRGH IUDJPHQW

LQW D > @ ^

LQW D

3UHGLFW WKH RXWSXW RI WKH IROORZLQJ VWDWHPHQW

D FRXW

E FRXW

F FRXW

:KDW LV WKH REMHFW RULHQWHG SURJUDPPPLQJ SDUDG

:KDW LV GDWD VWUXFWXUH " +RZ DUH WKH\ FODVVLILH

/LVW DQG H[SODLQ DQ\ WКУHH DWWULEXWHV RI %2'< V

,GHQWLX VXLWDEOH -DYD6FULSW GDWD W\SHV IRU WK

D ³VXSHU FRPSXWHU'

E ³WUXH'

F

:KDW LV 5HVSRQVLYH :HE 'HVLJQ " :KDW LV LWV VLJ
GHYLFHV "

'HILQH WKH IROORZLQJ WHUPV

D 5HODWLRQ

E &DQGLGDWH NH\

F 7XSOHV DQG DWWULEXWHV

&\EHUVSDFH r8"D " &\EHUVSDFH :39#>q j>' 6g8&:'9h;§;

\$UWLILFLDO 1H8UADQ81HDWZRUNV

(#9?'2; ,;#À .;(q9?-2;3>.-;• >#i90; ?%8(%DjÁhD q.>,2;#; í ?ÿ8¿ 3:# ?ÿ8¿6Du

#8>2 (/;-;§ ? 8 D—"9h;

LQW D > @ ^
LQW D

#8>2 (/;-;s ? 8%ej1;(¿nDEr2D#;

D FRXSW
E FRXSW
F FRXSW

r8"D REMHFW RULHQWHG SURJ#iDPLQJoDDU;DjÁLJP " 2;#; í

'DWD VW8XFW&UDH " 3 j>' FODVWw8 "

+70À (?-8 9h;3%2'<8 9>α ,<sD f 9*e<n;3>914H%/,§kD 2;#; í

#8>2 8";s 8. ÁhD';?-8 e,8- 838 fÿ9(,D 8,8>> tD #9.9k/9m2D#;

D ³VXSHU FRPSXWHU´
E ³WUXH´
F

>/6D?(8¾,,:xD >3CED 9>>6¾ 's8&;'9rD ue<n9 D (. "j19À #9>α f(8&8'e r8"D

#8>2 (/;-;s (%j1;> '9¿x '>,2;#;

D 5HODWLRQ
E &DQGLGDWH NH\
F 7XSOHV DQG DWWULEXWHV

:ULWH VKRUW QRWHV RQ DQ\ W\SHV LQ 6

:KDW LV WKH GLIIHUHQFH EHWZHHQ HFKR DQG SULQW

'HILQH WKH IROORZLQJ F\EHU FULPHV

D ,GHQWLW\ 7KHIW

E +DUDVVPHQW

F ,PSHUVRQDWLRQ DQG FKHDWLQJ

%ULHIO\ H[SODLQ GLIIHUHQW W\SHV RI FORXG VHUYLF

\$QVZHU DQ\ WZR TXHVWLRQV IURP WR u VFRUH HI

:ULWH 64/ TXHULHV EDVHG RQ WKH WDEOH 678'(17 JLY

6, '	1DPH	*URXS	0	0	7RWDO	3HUFHQWDJH
	'LDQD	&RPPHUFH				
	=LDQJ	+XPDQLWLHV				
	=DFKDU\	+XPDQLWLHV				
	3UL\D	&RPPHUFH				

D \$GG D QHZ ILHOG SHUFHQWDJH WR WKH WDEOH

E 8SGDWH SHUFHQWDJH RI DOO VWXGHQWV 3HUFHQW

F)LQG WKH DYHUDJH RI FROXPQ WRWDO IURP VWXG

G 'HOHWH DOO VWXGHQWV LQ +XPDQLWLHV EDWFK

H)LQG WKH QXPEHU RI VWXGHQWV ZKRVH SHUFHQW

D 1DPH WKH GLIIHUHQW W\SHV RI FRPPXQLFDWLRQ

E :KDW LV D ZHE VHUYHU "

6FRUHV

6FRUHV

>#i90; , <64D 8,8 >>619D' ;/90k D38-9 2;#; í

3+39>0HFKRSULQWv90;• 3e#e86>,r"8"D

#8>2t/-;s >>6*¿ ;,f #ejÁ '9¿x 9h;

D ,GHQWLW\ 7KHIW

E +DUDVVP HQW

F ,PSHUVRQDWLRQ DQG FKHDWLQJ

3939& #. z7E6 D'j>1h;/9k0D;38-9 394%: .9h; í

.;(q9>-n; ,;#À ,;t#D 3>.-;• >#i90;? 80DejÁhD

q.>,2;#; í ?ÿ8¿ 3:# ?ÿ8¿6Du

#8>2 #s9.9678'(17s ? *919>' 9•8',860/ TXHÁ\

2;#;

6, '	1DPH	*URXS	0	0	7RWDO	3HUFHQWDJH
	'LDQD	&RPPHUFH				
	=LDQJ	+XPDQLWLHV				
	=DFKDUY	+XPDQLWLHV				
	3UL\D	&RPPHUFH				

D 3HUFHQWDJH.;):À D¿h; í

E y8 ;n9 1;>SHUFHQWDJH;XSGBWFFHQWDJH 7RWDO

F ? 8?62Df <t9>0 ;n9 1;> ? 8n09>¤ 3?/ D >oq; í

G 7; ,8'9,96D *8k9>0 y8 ;n9 ?1-; ':h > w; í

H 4#,8'q9À < ;#À ,8¿hD ?' 9- ;n9 1;> p >oq; í

D>30E9>0 3939& #. 4-39'9,->q FR/P9KXQQLFDWLRQ

;.:h9>-2;#; í ?ÿ8¿6D

E r8"D >30ED 6¿3¿ ?ÿ8¿6D

,GHQWLI\ HUURUV LQ WKH IROORZLQJ +70/ FRGH
D 8/ W\SH ³\$´ VWDUW !
E K ! E ! ZHE SURJUDPPLQJ E ! L ! K !
F LPJ VUF µ3URILOH MSJ¶ VL]H !
G D KUHI ³&RQWDFW# JPDLO FRP´ !
H IUDPHVHW URZV ³ ´ !
IUDPH VUF ³ KWPO´ !
IUDPH VUF ³ KWPO´ !
IUDPHVHW !

BBBBBBBBBB

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#8>2 8";s70/ FR>GH>#;,; Á >oq;

D 8/ W\SH ³\$' VWDUW !

E K ! E ! ZHE SURJUDPPLQJ E ! L ! K !

F LPJ VUF µ3URILOH MSJ¶ VL]H !

G D KUHI ³&RQWDFW# JPDLO FRP' !

H IUDPHVHW URZV ³ ' !

IUDPH VUF ³ KWPO' !

IUDPH VUF ³ KWPO' !

IUDPHVHW !

BBBBBBBBBB

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