



7KH +RO\ 6HH

\$32672/, & &2167,787,21

6\$3,(17,\$ &+5,67,\$1\$

2) 7+(6835(0(3217,))

323(-2+1 3\$8/ ,,

21 (&&/(6,\$67,&\$ / 81,9(56,7,(6 \$1')\$&8/7,(6

-2+1 3\$8/ %,6+23

6(59\$17 2) 7+(6(59\$176 2) *2')25 3(53(78\$/ 5(0(0%5\$1&(

)25(:25'

,
&KULVWLDQ ZLVGRP ZKLFK WKH &KXUFK WHDFKHV E\ GLYLQH
RI &KULVW JHDORXVO\ WR HQGHYRU WR UHODWH KXPdq DIID
VLQJOH OLYLQJ V\QWKHVLV 8QGHU WKH GLUHFWRQ RI WKH
JORU\ RI *RG DQG WKH LQWHJUDO GHYHORSPhQW RI WKH KXP
FRUSRUDO DQG VSLULWXDO ZHOo EHLQJ

,QGHG WKH &KXUFK V PLVLRQ RI VSUHDGLQJ WKH *RVSHO
SUHDFKHG HYHU PRUH ZLGHO\ DQG WR HYHU JUHDWHU QXPEH
SRZHU RI WKH *RVSHO VKRXOG SHUPHDWH WKRXJKW SDWWHU
EHKDYLru LQ D ZRUG LW LV QHFHVVDU\ WKDW WKH ZKROH R

7KH FXOWXUDO DWPRVSKHUH LQ ZKLFK D KXPdq EHLQJ OLYHV
WKLQNLQJ DQG WKXV RI DFWLQJ 7KHUHIRUH D GLYLVLRQ E
LPSHGLPhQW WR HYDQJHOLJDWLRQ ZKLOH D FXOWXUH SHQH
WKDW IDYRUV WKH VSUHDGLQJ RI WKH *RRG 1HZV

)XUWKHUPRUH WKH *RVSHO LV LQWHQGHG IRU DOO SHRSOHV
H[FOXVLYHO\ WR DQ\ SDUWLFXODU FXOWXUH ,W LV YDOLG IR
WKH OLJKW RI GLYLQH UHYHODWLRQ DQG WR SXULI\ KXPdq F

)RU WKLW UHVRQ WKH &KXUFK RI &KULVW VWULYHV WR EUL
VR DV WR EH DEOH WR FRQYHUW WKH FRQVFLHQFHV RI KXPDC
DQG WR ILOO ZLWK WKH OLJKW RI WKH *RVSHO WKHLU ZRUNV
WKH ZKROH RI WKH VRFLDO HQYLURQPHQW LQ ZKLFK WKH\ DU
KHU PLVVLRQ RI HYDQJHOLJLQJ DOVR E\ DGYDQFLQJ KXPDC F

,,

,Q WKLW DFWLYLW\ RI WKH &KXUFK ZLWK UHJDUG WR FXOWXU
VSHFLDO LPSRUWDQFH %\ WKHLU QDWXUH WKH\ DLP WR VHF
SXEOLF VWDEOH DQG XQLYHUVDO LQIOXHQFH LQ WKH ZKROH

,Q IDFW DV P\ 3UHGHFHVVURU 3RSH 3LXV ;, UHFDOOHG LQ WKH
6FLHQWLDUXP 'RPLQXV WKHUH DURVH ZLWKLQ WKH &KXUFK
LPSDUWLQJ LQVWUXFWLRQ LQ &KULVWLDQ ZLVGRP VR WKDW
WKHVH KRXXHV RI &KULVWLDQ ZLVGRP WKH PRVW LOOXVULF
DQG HFFOHVLDVWLFDO ZULWHUV GUHZ WKHLU NQRZOHGJH

:LWK WKH SDVVLQJ RI FHQWXULHV VFKRROV ZHUH HVWDEOLV
PRQDVWHULHV WKDQV HVSHFLDOO\ WR WKH JHDORXV LQLWL
LPSDUWHG ERWK HFFOHVLDVWLFDO GRFWULQH DQG VHFODU
VFKRROV DURVH WKH XQLYHUVLWLHV WKRVH JORULRXV LQVV
EHJLQQLQJ KDG WKH &KXUFK DV WKHLU PRVW ERXQWLIXO PR

6XEVHTXHQWO\ ZKHQ FLYLO DXWKRULWLHV WR SURPRWH WK
RZQ XQLYHUVLWLHV WKH &KXUFK OR\DO WR KHU YHU\ QDWX
VXFK NLQGV RI FHQWHUV RI OHDUQLQJ DQG LQVWLWXWLRQV
QXPEHU RI &DWKROLF XQLYHUVLWLHV HVWDEOLVKHG LQ UHF
&RQVFLRXV RI KHU ZRUOGZLGH VDOYLILF PLVVLRQ WKH &KX
FHQWHUV RI KLJKHU OHDUQLQJ DQG VKH GHVLUHV WKDW WKH
PDNH &KULVW V WUXH PHVVDJH SUHVHQW LQ WKH ILHOG RI K
ILHOG

,Q RUGHU WKDW &DWKROLF XQLYHUVLWLHV PLJKW EHWWHU D

FRQVLGHUDEOH FDUH WR VFKRROV RI KLJKHU OHDUQLQJ DQ
XQLYHUVLWLHV VKRXOG EH HVWDEOLVKHG LQ VXLWDEOH ORI
VWXGHQWV RI WKHVH LQVWLWXWLRQV VKRXOG EH WUXO\ RXW
PDMRU UHVSRQVLELOLW\ LQ VRFLHW\ DQG WR ZLWQHVV WR W
NQRZV WKH IXWXUH RI VRFLHW\ DQG RI WKH &KXUFK KHUVH
\RXQJ SHRSOH HQJDJHG LQ KLJKHU VWXGLHV

WKH\ DUH HUHFWHG DV (FFOHVLDVWLFDO)DFXOWLHV 7KH\ W
&KXUFK V +LHUDUFK\

7KXV WKH \$SRVWROLF 6HH LQ FDUU\LQJ RXW LWV PLVVLRQ
DQG SURPRWH (FFOHVLDVWLFDO)DFXOWLHV GHSHQGHQW RQ
SDUWV RI XQLYHUVLWLHV)DFXOWLHV GHVWLQHG IRU WKH H
7KLV 6HH LV YHU\ GHVLURXV WKDW WKH ZKROH 3HRSOH RI *R
VKRXOG FRRSHUDWH WR HQVXUH WKDW WKHVH FHQWHUV RI C
IDLWK DQG RI &KULVWLDQ OLIH

,9

(FFOHVLDVWLFDO)DFXOWLHV ZKLFK DUH RUGHUHG WR WKH
YDOXDEOH UHODWLRQVKLS ZLWK WKH ZKROH HFFOHVLDQ FRP
LPSRUWDQFH LQ WKH &KXUFK DQG RI WKHLU SDUWLFLSDWLRQ
)DFXOWLHV ZKLFK WUHDW RI PDWWHUV WKDW DUH FORVH WR
RUGHUV ZKLFK &KULVW WKH 6XSUHPH 7HDFKHU JDYH WR +LV
WKHUHIRUH DQG PDNH GLVFLSOHV RI DOO QDWLRQV EDSWLJL
6RQ DQG RI WKH +RO\ 6SLULW WHDFKLQJ WKHP WR REVHUYH
)URP WKLW LW IROORZV WKDW WKHUH PXVW EH LQ WKHVH
MRLQHG WR WKH IXOO GRFWULQH RI &KULVW ZKRVH DXWKHQ
WKURXJK WKH DJHV WKH 0DJLVWHULXP RI WKH &KXUFK

%LVKRSV &RQIHUHQFHV LQ WKH LQGLYLGXDO QDWLRQV DQG
GLOLJHQWO\ VHH WR WKHLU FDUH DQG SURJUHVV DW WKH V
ILGHOLW\ WR WKH &KXUFK V GRFWULQH VR WKDW WKHVH)DF
FRPPXQLW\ RI WKH IDLWKIXO WR WKHLU ZKROHKHDUWHG IROO
&KULVW 7KLV ZLWQHVV PXVW DOZD\V EH ERUQH ERWK E\ WKI
PHPEHU RI WKH)DFXOW\ (FFOHVLDVWLFDO 8QLYHUVLWLHV D
&KXUFK IRU WKH EXLOGLQJ XS DQG SHUIHFWLQJ RI &KULVW V
PLQG DV D FULWHULRQ LQ WKH FDUU\LQJ RXW RI WKHLU ZRUN

7R DWDDLQ WKHVH SXUSRVHV (FFOHVLDVWLFDO)DFXOWLHV
UHVSRRG WR WKH QHZ GHPDQGV RI WKH SUHVHQW GD\)RU W
VWDWHG WKDW WKHLU ODZV VKRXOG EH VXEMHFWHG WR UHY

,Q IDFW WKH \$SRVWOLF &RQVWLWXWLRQ 'HXV 6FLHQWLDUX
3RSH 3LXV ;, RQ 0D\ GLG PXFK LQ LWV WLPH UHQHZ KL
DV D UHVXOW RI FKDQJHG FLUFXPVWDQFHV LW QRZ QHHGV W

,Q WKH FRXUVH RI QHDOO\ ILIW\ \HDUV JUHDW FKDQJHV KDYH
LQ WKH &KXUFK KHUVHOI ,PSRUWDQW HYHQWV HVSHFLDOO\
HYHQWV ZKLFK KDYH DIIHFWHG ERWK WKH LQWHUQDO OLIH R

1RERG\ LV XQDZDUH RI WKH GLIILFXOWLHV WKDW DSSHU WR
&RQVWLWXWLRQ ,Q WKH ILUVW SODFH WKHUH LV WKH SDVV
LW VHHPV LPSRVVLEOH WR OD\ GRZQ DQ\WKLQJ VWDEOH DQG
SODFHV ZKLFK VHHPV WR FDOO IRU D SOXUDOLVP ZKLFK ZRX

\$UWLFOH ,Q WKLW &RQVWLWXWLRQ WKH WHUPV (FFOHVLDVW
KDYH EHHQ FDQRQLFDOO\ HUHFWHG RU DSSURYHG E\ WKH \$S
GRFWULQH DQG WKH VFLHQFHV FRQQHFWHG WKHUHZLWK DQ
GHJUHHV E\ WKH DXWKRULW\ RI WKH +RO\ 6HH

\$UWLFOH 7KH SXUSRVH RI (FFOHVLDVWLFDO)DFXOWLHV DU

Q WKURXJK VFLHQWLILF UHVHDFK WR FXOWLYDWH DQG S
GHHSHQ NQRZOHGJH RI &KULVWLDQ UHYHODWLRQ DQG RI PDV
V\ VWHPDWLFDOO\ WKH WUXWKV FRQWDLQH G WKHUHLQ WR FR
SURJUHVV RI WKH VFLHQFHV DQG WR SUHVHQW WKHP WR WK
DGDSWHG WR YDULRXV FXOWXUHV

Q WR WUDLQ WKH VWXGHQWV WR D OHYHO RI KLJK TXDOL
&DWKROLF GRFWULQH WR SUHSDUH WKHP SURSHUO\ WR IDF
SHUPDQH QW HGXFDWLRQ RI WKH PLQLVWHUV RI WKH &KXUFK

Q WR FR ~~ODDE R~~ ~~DYH~~ ~~GH~~ ~~EL~~ ~~QW~~ ~~S~~ ~~R~~ ~~W~~ ~~R~~ ~~%~~ ~~Q~~ ~~V~~ ~~R~~ ~~F~~ ~~R~~ ~~D~~ ~~O~~ ~~D~~ ~~H~~ ~~E~~ ~~F~~ ~~I~~ ~~O~~ ~~Z~~ ~~V~~ ~~M~~ ~~K~~ ~~O~~ ~~W~~
+LHUDUFK\ ZLWK WKH ORFDO DQG WKH XQLYHUVDO &KXUFK V

\$UWLFOH ,W LV WKH GXW\ RI %LVKRSV &RQIHUHQFHV WR I
(FFOHVLDVWLFDO 8QLYHUVLVWLHV DQG)DFXOWLHV EHFDXVH

PD\ QRW FRQIHU DFDGHPLF GHJUHHV KDYLQJ FDQRQLFDO YDC

Q \$FDGHPLF GHJUHHV FRQIHUUHG E\ VXFK)DFXOWLHV LI V
HIIHFWV RQO\ UHTXLUH WKH UHFRJQLWLRQ RI WKH 6DFUHG &

Q)RU WKLV UHFRJQLWLRQ WR EH JLYHQ IRU LQGLYLGXDO
GRZQ E\ WKH 6DFUHG &RQJUHJDWLRQ PXVW EH IXOILOOHG

\$UWLFOH)RU WKH FRUUHFW FDUU\LQJ RXW RI WKH SUHVH
E\ WKH 6DFUHG &RQJUHJDWLRQ IRU &DWKROLF (GXFDWLRQ P)

6HFWLRQ ,,

7KH \$FDGHPLF &RPPXQLW\ DQG ,WV *RYHUQPHQW

\$UWLFOH Q 6LQFH WKH 8QLYHUVLW\ RU)DFXOW\ IRUPV
HLWKHU DV LQGLYLGXDOV RU DV PHPEHUV RI FRXQFLOV PXV

WDNLQJ LQWR DFFRXQW ERWK WKH FDQRQLFDO QDWXUH RI W
XQLYHUVLW\ SUDFWLFH LQ WKH ORFDO DUHD

\$UWLFOH 7KRVH GHVLJQHG DV DFDGHPLF DXWKRULWLHV D
DERXW XQLYHUVLW\ OLIH DQG XVXDOO\ ZKR FRPH IURP DPR

\$UWLFOH 7KH 5HFWRU DQG WKH 3UHVLGHQW DUH QDPHG
&RQJUHJDWLRQ IRU &DWKROLF (GXFDWLRQ

\$UWLFOH Q 7KH 6WDWXWHV GHWHUPLQH KRZ WKH SHUV
FROODERUDWH ZLWK HDFK RWKHU VR WKDW FDUHIXOO\ REV
PRUH VHULRXV PDWWHUV DQG DERYH DOO LQ WKRVH RI DQ D
HQMR\ WKDW H[HUFLVH RI SRZHU ZKLFK UHDOO\ FRUUHVSRRQ

Q 7KLV DSSOLHV LQ WKH ILUVW SODFH WR WKH 5HFWRU
DQG WR SURPRWH LQ D VXLWDEOH ZD\ LWV XQLW\ FRRSHUD

\$UWLFOH Q :KHQ)DFXOWLHV DUH SDUWV RI DQ (FFOHVL
FRRUGLQDWHG WKURXJK WKH 6WDWXWHV ZLWK WKH JRYHUQD
WKH JRRG RI WKH VLQJOH)DFXOWLHV LV DVVXUHG DW WKH V
LV SURPRWHG DQG WKH FRRSHUDWLRQ RI DOO WKH)DFXOWL

Q 7KH FDQRQLFDO H[LJHQFLHV RI (FFOHVLDVWLFDO)DFXO
)DFXOWLHV DUH LQVHUWHG LQWR QRQ (FFOHVLDVWLFDO XQ

\$UWLFOH :KHQ D)DFXOW\ LV MRLQHG WR D VHPLQDU\ RU F
GXH FRQFHUQ IRU FRRSHUDWLRQ LQ HYHU\WKLQJ SHUWDLQLQ
HIIHFWLYHO\ SURYLGH WKDW WKH DFDGHPLF GLUHFWRU DQG
IURP WKH JRYHUQDQFH DQG DGPLQLVWUDWLRQ RI WKH VHPLQ

6HFWLRQ ,,,

7HDFKHUV

\$UWLFOH ,Q HDFK)DFXOW\ WKHUH PXVW EH D QXPEHU RI V
FRUUHVSRRQV WR WKH LPSRUWDQFH DQG GHYHORSPHQW RI V
SURSHU FDUH DQG SURILW RI WKH VWXGHQWV

\$UWLFOH 7KHUH PXVW EH YDULRXV UDQNV RI WHDFKHUV
PHDVXUH RI SUHSDUDWLRQ WKHLU LQVHUWLRQ LQWR WKH)D
WR WKH)DFXOW\ WDNLQJ LQWR DFFRXQW WKH XQLYHUVLW\ S

\$UWLFOH 7KH 6WDWXWHV DUH WR GHILQH ZKLFK DXWKRUL

)DFXOW\

\$UWLFOH 7KH WHDFKHUV LQ RUGHU WR FDUU\ RXW WKHLU
HPSOR\PHQW ZKLFK FDQQRW EH UHFRQFLOHG ZLWK WKHLU G
ZKDW WKH 6WDWXWHV UHTXLUH IRU HDFK UDQN RI WHDFKHU

\$UWLFOH 7KH 6WDWXWHV PXVW VWDWH

D ZKHQ DQG XQGHU ZKLFK FRQGLWLRQV D WHDFKLQJ SRVW H

E IRU ZKDW UHDVRQV DQG LQ ZKLFK ZD\ D WHDFKHU FDQ EH
VR DV WR VDIHJDUG VXLWDEO\ WKH ULJKWV RI WKH WHDFKH
RI WKH VWXGHQWV DQG DOVR RI WKH HFFOHVLDO FRPPXQLW\

6HFWLRQ ,9

6WXGHQWV

\$UWLFOH (FFOHVLDVWLFDO)DFXOWLHV DUH RSHQ WR DOO
JLYH WHVWLPRQ\ WR OHDGLQJ D PRUDO OLIH DQG WR KDYLQJ
HQUROOLQJ LQ WKH)DFXOW\

\$UWLFOH Q 7R HQUROO LQ D)DFXOW\ LQ RUGHU WR RE
NLQG RI VWXG\ WLWOH ZKLFK ZRXOG EH QHFHVVDU\ WR SHUP
FRXQWU\ RU RI WKH FRXQWU\ ZKHUH WKH)DFXOW\ LV ORFDW

Q 7KH)DFXOW\ LQ LWV RZQ 6WDWXWHV VKRXOG GHWHUP
DERYH LV QHHGHG IRU HQWUDQFH LQWR LWV FRXUVH RI VWX
UHTXLUHPHQWV

\$UWLFOH 6WXGHQWV PXVW IDLWKIXOO\ REVHUYH WKH ODZ
DERXW GLVFLSOLQH LQ WKH ILUVW SODFH DERXW WKH VWX
DV ZHOO DV DOO WKDW SHUWDLQV WR WKH OLIH RI WKH)DF

\$UWLFOH 7KH 6WDWXWHV VKRXOG GHILQH KRZ WKH VWXGH
LQ WKH XQLYHUVLW\ FRPPXQLW\ OLIH LQ WKRVH DVSHFWV ZK
)DFXOW\ RU 8QLYHUVLW\

\$UWLFOH 7KH 6WDWXWHV VKRXOG HTXDOO\ GHWHUPLQH KF
VXVSHQGHHG IURP FHUWDLQ ULJKWV RU EH GHSULYHG RI WKH
VXFK D ZD\ WKDW WKH ULJKWV RI WKH VWXGHQW RI WKH)DF

FRPPXQLW\ DUH DSSURSULDWHO\ SURWHFWHG

6HFWLRQ 9

2IILFLDOV DQG 6WDII \$VVLVWDQWV

\$UWLFOH Q ,Q JRYHUQLQJ DQG DGPLQLVWHULQJ D 8QLY
DVVLVWHG E\ RIILFLDOV WUDLQHG IRU YDULRXV WDVNV

Q 7KH RIILFLDOV DUH ILUVW RI DOO WKH 6HFUHWDU\ WK

\$UWLFOH 7KHUH VKRXOG DOVR EH RWKHU VWDII DVVLVWDQ
RWKHU GXWLHV DFFRUGLQJ WR WKH QHHGV RI WKH 8QLYHUV

6HFWLRQ 9,

6WXG\ 3URJUDP

Q 7KHUHIRUH LQ VXFK D ZHLJKW\ PDWWHU RQH PXVW SUR
VXVSLFLRQ DW WKH VDPH WLPH ZLWK MXGJPHQW DQG ZLWKR
ZRUNLQJ WR KDUPRQLJH VWXGLRXVO\ WKH QHFHVVLWLHV RI V
RI *RG

\$UWLFOH ,Q HDFK)DFXOW\ D FXUULFXOXP RI VWXGLHV LV
DGDSWHG WR WKH PDWHULDO 7KH DUH XVXDOO\ DV IROORZV

D ILUVW D JHQHUDO LQVWUXFWLRQ LV LPSDUWHG FRYHULQ
DORQJ ZLWK DQ LQWURGXFWRQ LQWR VFLHQWLILF PHWKRG

E QH[W RQH VHFWRQ RI WKH GLVFLSOLQHV LV VWXGLHG PR
VWXGHQWV SUDFWLFH VFLHQWLILF UHVHDUFK PRUH IXOO\

F ILQDOO\ WKHUH LV SURJUHVV WRZDUG VFLHQWLILF PDWXU
PDNHV D FRQWULEXWRQ WR WKH DGYDQFH RI WKH VFLHQFH

\$UWLFOH Q 7KH GLVFLSOLQHV ZKLFK DUH DEVROXWHO\
SXUSRVHV VKRXOG EH GHWHUPLQHG 7KRVH DOVR VKRXOG EH
WR WKHVH SXUSRVHV DQG WKUHIRUH KRZ WKHVH DUH VXLV

Q ,Q HDFK)DFXOW\ WKH GLVFLSOLQHV VKRXOG EH DUUDQJ
ERG\ VR DV WR VHUYH WKH VROLG DQG FRKHUHQW IRUPDWLF
E\ WKH WHDFKHUV

\$UWLFOH /HFWXUHV HVSHFLDOO\ LQ WKH EDVLF F\FOH PX
WKHP DFFRUGLQJ WR WKH QRUPV WR EH GHWHUPLQHG LQ WK

\$UWLFOH 3UDFWLFDO H[HUFLVHV DQG VHPLQDUV PDLQO\ I
DVVLGXRXVO\ FDUULHG RQ XQGHU WKH GLUHFWLRQ RI WKH W
FRPSOHPHQWHG E\ SULYDWH VWXG\ DQG IUHTXHQW GLVFXVV

\$UWLFOH 7KH 6WDWXWHV RI WKH)DFXOW\ DUH WR GHILQH

6HFWLRQ 9,,

\$FDGHPLF 'HJUHHV

\$UWLFOH Q \$IWHU HDFK F\FOH RI WKH FXUULFXOXP RI V
FRQIHUUHG ZKLFK PXVW EH HVWDEOLVKHG IRU HDFK)DFXOW
F\FOH DQG WR WKH GLVFLSOLQHV WDXJKW LQ LW

Q 7KHUHIRUH DFFRUGLQJ WR WKH JHQHUDO DQG VSHFLDO
FRQIHUUHG DQG WKH FRQGLWLRQV XQGHU ZKLFK WKH\ DUH F
RI WKH LQGLYLGXDO)DFXOWLHV

\$UWLFOH 7KH DFDGHPLF GHJUHHV FRQIHUUHG E\ DQ (FF
/LFHQWLDWH DQG 'RFWRUDWH

Q 6SHFLDO TXDOLILFDWLRQV FDQ EH DGGHG WR WKH QDPH
RI)DFXOWLHV DQG WKH RUGHU RI VWXGLHV LQ WKH LQGLYLG

\$UWLFOH \$FDGHPLF GHJUHHV FDQ EH JLYHQ GLIIHUHQW QD
)DFXOWLHV WDNLQJ DFFRXQW RI WKH XQLYHUVLW\ SUDFWLF
FODULW\ WKH HTXLYDOHQFH WKHVH KDYH ZLWK WKH QDPHV R
PDLQWDLQLQJ XQLRUPLW\ DPRQJ WKH (FFOHVLDVWLFDO)DFX

\$UWLFOH Q 1RERG\ FDQ REWDLQ DQ DFDGHPLF GHJUHH
FRPSOHWLQJ WKH FRXUVH RI VWXGLHV SUHVFULEHG E\ WKH 6
H[DPLQDWLRQV RU WHVWV

Q 1RERG\ FDQ EH DGPLWWHG WR WKH GRFWRUDWH XQOHV

Q \$ UHTXLVLWH IRU REWDLQLQJ D GRFWRUDWH IXUWKHUP
FRQWULEXWLRQ WR WKH SURJUHVV RI VFLHQFH ZULWWHQ XG
DQG FROOHJLDOO\ DSSURYHG WKH SULQFLSDO SDUW DW OH

\$UWLFOH Q 7KH GRFWRUDWH LV WKH DFDGHPLF GHJUHH
ZKLFK LV WKUHIRUH UHTXLUHG IRU WKLV SXUSRVH WKH OL
RQH WR WHDFK LQ D PDMRU VHPLQDU\ RU HTXLYDOHQW VFKR
SXUSRVH

Q 7KH DFDGHPLF GHJUHHV ZKLFK DUH UHTXLUHG IRU ILOO
VWDWHG E\ WKH FRPSHWHQW HFFOHVLDVWLFDO DXWKRULW\

\$UWLFOH \$Q KRQRUDU\ GRFWRUDWH FDQ EH FRQIHUUHG IR
DFFRPSOLVKPHQW LQ SURPRWLQJ WKH HFFOHVLDVWLFDO VFL

WKH VWXGHQWV DUH WR FRQWULEXWH WR WKH H[SHQVHV RI
IHHV \HDUO\ WXLWLRQ H[DPLQDWLRQ IHHV DQG GLSORPD IH

6HFWLRQ ;

3ODQQQLQJ DQG &RRSHUDWLRQ RI)DFXOWLHV

\$UWLFOH Q *UHDW FDUH PXVW EH JLYHQ WR WKH GLVW
8QLYHUVLWLHV DQG)DFXOWLHV VR DV WR SURYLGH IRU WKH
GLVWULEXWLRQ LQ GLIIHUHQW SDUWV RI WKH ZRUOG

Q 7R DFFRPSOLVK WKLW HQG WKH 6DFUHG &RQJUHJDWLRQ
DGYLFH IURP WKH %LVKRSV &RQIHUHQFHV DQG IURP D FRPPL

\$UWLFOH 7KH HUHFWLRQ RU DSSURYDO RI D QHZ 8QLYHUV
&RQJUHJDWLRQ IRU &DWKROLF (GXFDWLRQ ZKHQ DOO WKH UH
&RQJUHJDWLRQ OLVWHQV WR WKH ORFDO 2UGLQDULHV WKH
QHLJKERULQJ)DFXOWLHV

\$UWLFOH Q \$IILOLDWLRQ RI VRPH LQVWLWXWLRQ ZLWK
WKH EDFKHORU V GHJUHH LV DSSURYHG E\ WKH 6DFUHG &RQJ
FRQGLWLRQV HVWDEOLVKHG E\ WKDW VDPH 6DFUHG &RQJUHJ

Q ,W LV KLJKO\ GHVLUDEOH WKDW WKHRORJLFDO VWXG\ FH
WR D)DFXOW\ RI 6DFUHG 7KHRORJ\

\$UWLFOH \$JJUHJDWLRQ WR D)DFXOW\ DQG LQFRUSRUDWLF
SXUSRVHV RI DOVR JUDQWLQJ KLJKHU DFDGHPLF GHJUHHV LV
IRU &DWKROLF (GXFDWLRQ DIWHU WKH FRQGLWLRQV HVWDEO
IXOILOOHG

\$UWLFOH &RRSHUDWLRQ EHWZHHQ)DFXOWLHV ZKHWKHU F
RU RI D ZLGHU WHUULWRULDO DUHD LV WR EH GLOLJHQWO\ V
VFLHQWLILF UHVHDFK RI WKH WHDFKHUV DQG WR WKH EHW
DGYDQFH RI LQWHUGLVFLSOLQDU\ FROODERUDWLRQ ZKLFK D
ZHOO DV FRQWULEXWLQJ WR WKH GHYHORSPHQW RI FRPSOHP
DERXW WKH SHQHWUDWLRQ E\ &KULVWLDQ ZLVGRP RI DOO FX

63(&,\$/ 12506

\$UWLFOH %HVLGHV WKH QRUPV FRPPRQ WR DOO (FFOHVLD
ILUVW SDUW RI WKLV &RQVWLWXWLRQ VSHFLDO QRUPV DUH
EHFDXVH RI WKHLU SDUWLFXODU QDWXUH DQG LPSRUWDQFH

6HFWLRQ ,3.48TRQ ,3.4gEKH

LV DOZD\V WR EH HPSKDV LJHG ,Q WKH FDUU\LQJ RXW RI WHD
WKR VH WKLQJV DUH DERYH DOO WR EH LPSDUWHG ZKLFK EH
+\SRWKHWLFDO RU SHUVRQDO RSLQLRQV ZKLFK FRPH IURP QH
VXFK

\$UWLFOH ,Q SUHVHQWLQJ GRFWULQH WKR VH QRUPV DUH V
WKH 6HFRQG 9DWLFDQ &RXQFLO DV ZHOO DV WKR VH IRXQ
6HH LQVRIDU DV WKHVH SHUWDLQ WR DFDGHPLF VWXGLHV

\$UWLFOH 7KH FXUULFXOXP RI VWXGLHV RI D)DFXOW\ RI 6D

D WKH ILUVW F\FOH IXQGDPHQWDOV ZKLFK ODVWV IRU ILYH
SUHYLRXV WZR \H DU SKLORVRSK\ FRXUVH LV DQ HQWUDQFH
SKLORVRSKLFDO IRUPDWLRQ ZKLFK LV D QHFHVVDU\ SURSDH
GLVFLSOLQHV PXVW EH WDXJKW LQ VXFK D ZD\ WKDW ZKDW L
ZKROH RI &DWKROLF GRFWULQH WRJHWKHU ZLWK DQ LQWUR

7KH F\FOH HQGV ZLWK WKH DFDGHPLF GHJUHH RI %DFFDODXU
6WDWXWHV RI WKH)DFXOW\ GHWHUPLQH

E WKH VHFRQG F\FOH VSHFLDOL]DWLRQ ZKLFK ODVWV IRU V
VSHFLDO GLVFLSOLQHV DUH WDXJKW FRUUVSRQGLQJ WR WK
XQGHUWDNHQ \$OVR VHPLQDUV DQG SUDFWLFDO H[HUFLVHV D

RIILFH

\$UWLFOH Q \$Q (FFOHVLDVWLFDO)DFXOW\ RI 3KLORVRSI
SUREOHPV DFFRUGLQJ WR VFLHQWLILF PHWKRGRORJ\ EDVLQ
SKLORVRSK\ ,W KDV WR VHDUFK IRU VROXWLRQV LQ WKH
WR GHPRQVWUDWH WKHLU FRQVLVWHQF\ ZLWK WKH &KULVWL
LQ D SURSHU OLJKW WKH UHODWLRQVKLS EHWZHHQ SKLORVR

Q 7KHQ WKH VWXGHQWV DUH WR EH LQVWUXFWHG VR DV
VXLWDEOH LQWHOOFWXDO SRVWV DV ZHOO DV WR SUHSDUH
D IUXLWIXO GLDORJXH ZLWK WKH SHRSOH RI RXU WLPH

\$UWLFOH ,Q WKH WHDFKLQJ RI SKLORVRSK\ WKH UHOHYD
FRQWDLQH G LQ WKH GRFXPHQWV RI WKH 6HFRQG 9DWLFDQ &F
WKH +RO\ 6HH FRQFHUQLQJ DFDGHPLF VWXGLHV

\$UWLFOH 7KH FXUULFXOXP RI VWXGLHV RI D)DFXOW\ RI 3K

D WKH ILUVW F\FOH EDVLFV LQ ZKLFK IRU WZR \HDUV RU IR
YDULRXV SDUVV RI SKLORVRSK\ LV LPSDUWHG ZKLFK LQFOX
LQFOXGHV WKH KLVWRU\ RI SKLORVRSK\ WRJHWKHU ZLWK DQ
UHVHDUFK

E WKH VHFRQG F\FOH WKH EHJLQQLQJ RI VSHFLDOL]DWLRQ
WKURXJK VSHFLDO GLVFLSOLQHV DQG VHPLQDUV D PRUH SUR
VHFWRU RI SKLORVRSK\

F WKH WKLUG F\FOH LQ ZKLFK IRU D VXLWDEOH SHULRG RI V

D D PRUH SURIRXQG VWXG\ RI FHUWDLQ VFLHQFHV ZKLFK DU
MXULGLFDO DQG SKLORVRSKLFDO GLVFLSOLQHV

E WKH SURPRWLRQ RI RWKHU VFLHQFHV ILUVW RI DOO WKH
WKH WKHRORJLFDO GLVFLSOLQHV RU ZLWK WKH ZRUN RI HYD

F WKH FXOWLYDWLRQ RI OHWWHUV ZKLFK SURYLGH D VSHFLD
&KULVWLDQ UHYHODWLRQ RU HOVH LQ FDUU\LQJ RQ WKH ZRU

G ILQDOO\ WKH PRUH H[DFWLQJ SUHSDUDWLRQ ERWK RI WKH
VSHFLDOL]HG DSRVWROLF WDVNV

\$UWLFOH ,Q RUGHU WR DFKLHYH WKH JRDOV VHW GRZQ LQ
LQVWLWXWLRQV DG LQVWDU)DFXOWDWLV KDYH DOUHDG\ EH
WKH +RO\ 6HH LWVHOI

- &KULVWLDQ DUFKDHRORJ\
 - %LEOLFDO VWXGLHV DQG DQFLHQW (DVWHUQ VWXGLHV
 - &KXUFK KLVWRU\
 - &KULVWLDQ DQG FODVVLFDO OLWHUDWXUH
 - /LWXUJ\
 - 0LVVLRORJ\
 - 6DFUHG 0XVLF
 - 3V\FKRORJ\
 - (GXFDWLRQDO VFLHQFH RU 3HGDJRJ\
 - 5HOLJLRXV VFLHQFH
 - 6RFLDO VFLHQFHV
 - \$UDELF VWXGLHV DQG ,VODPRORJ\
 - 0HGLDHYDO VWXGLHV
 - 2ULHQWDO (FFOHVLDVWLFDO VWXGLHV
 - 8WULXVTXH ,XULV ERWK FDQRQ DQG FLYLO ODZ
- \$UWLFOH ,W EHQq76 677.21 THQW FDO VWXGLHV

\$UWLFOH 7KLV SUHVHQW &RQVWLWXWLRQ FRPHV LQWR HII
\HDU RU RI WKH DFDGHPLF \HDU DFFRUGLQJ WR WKH VFK

\$UWLFOH (DFK 8QLYHUVLW\ RU)DFXOW\ PXVW EHIRUH -DQ
UHVLVHG DFFRUGLQJ WR WKLV &RQVWLWXWLRQ WR WKH 6DF
QRW GRQH LWV SRZHU WR JLYH DFDGHPLF GHJUHHV LV E\ W

\$UWLFOH ,Q HDFK)DFXOW\ WKH VWXGLHV PXVW EH DUUDQ
DFDGHPLF GHJUHHV DFFRUGLQJ WR WKH QRUPV RI WKLV &RQ
FRPLQJ LQWR HIIHFV SUHVHUYLQJ WKH VWXGHQWV SUHYLR

\$UWLFOH 7KH 6WDWXWHV DUH WR EH DSSURYHG H[SHULPH
SHULRG LV FRPSOHWHG WKH\ PD\ EH SHUIHFWHG DQG DSSUR

\$UWLFOH 7KRVH)DFXOWLHV ZKLFK KDYH D MXULGLFDO FR

3. &I LELG \$\$\$ SS I DQG DOVR 3DVWRUDO &RQVWLWXWLRQ
6SHV \$\$\$ S
4. &I 6HFRQG 9DWLFDQ (FXPHQLFDO &RXQFLO 'HFODUDWLRQ RQ &KULVWLDQ
S
5. \$\$\$ S
6. \$\$\$ S
7. 'HFODUDWLRQ RQ &KULVWLDQ (GXFDWLRQ *UDYLVVLPXP (GXFDWLRQLV
8. ,ELG
9. ,ELG \$\$\$ S
10. 3DVWRUDO &RQVWLWXWLRQ RQ WKH &KXUFK LQ WKH 0RGHUQ :RUOG *DX
11. &I 3RSH -RKQ ;:,, \$OORFXWLRQ DW WKH RSHQLQJ RI WKH 6HFRQG 9DW
DQG DOVR WKH 3DVWRUDO &RQVWLWXWLRQ RQ WKH &KXUFK LQ WKH 0R
12. 3RSH 3DXO 9, /HWWHU /H WUDQVIHUW D /RXYDLQ OD 1HXYH WR WKH
6HSWHPEHU FI / 2VVHUYDWRUH 5RPDQR 6HSWHPEHU
/HWWHU 5HGHP\$WRU +RPLQLV \$\$\$ SS II
13. 'HFODUDWLRQ RQ &KULVWLDQ (GXFDWLRQ *UDYLVVLPXP (GXFDWLRQLV
14. &I \$SRVWROLF &RQVWLWXWLRQ 5HJLPLQL (FFOHVLDH 8QLYHUVDH \$
15. &I 0RWX 3URSULR 6HG\$OD &XUD \$\$\$ SS II DQG DOVR WKH '
5DWLR SHULFOLWDQGDH GRFWULQDH \$\$\$ SS II
16. &I 6HFRQG 9DWLFDQ (FXPHQLFDO &RXQFLO 'RJPDWLF &RQVWLWXWLRQ
SS
17. 6HFRQG 9DWLFDQ (FXPHQLFDO &RXQFLO 3DVWRUDO &RQVWLWXWLRQ R
\$\$\$ S
18. 6HFRQG 9DWLFDQ (FXPHQLFDO &RXQFLO 'RJPDWLF &RQVWLWXWLRQ RQ
S
19. 6HFRQG 9DWLFDQ (FXPHQLFDO &RXQFLO 'HFODUDWLRQ RQ &KULVWLDQ
S
20. 6HFRQG 9DWLFDQ (FXPHQLFDO &RXQFLO 'HFUHH RQ WKH 0LVVLRQDU\
SS II
21. 6HH WKH (FXPHQLFDO 'LUHFWRU\ 6HFRQG 3DUW \$\$\$ SS
22. 6HH HVSHFLDOO\ 6HFRQG 9DWLFDQ (FXPHQLFDO &RXQFLO 'RJPDWLF &R
\$\$\$ SS II
23. 6HH HVSHFLDOO\ WKH /HWWHU RI 3RSH 3DXO 9, /XPHQ (FFOHVLDH DER)
\$\$\$ SS II \$OVR VHH WKH FLUF\$ODU OHWWHUV RI WKH 6DFUH
7KHRORJLFDQ)RUPDWLRQ RI)XWXUH 3ULHVWV)HEUXDU\ RQ &D
DQG RQ 3KLORVRSKLFDO 6WXGLHV -DQXDU\
24. 6HH 6HFRQG 9DWLFDQ (FXPHQLFDO &RXQFLO 'HFUHH RQ 3ULHVWO\)RU
25. (VSHFLDOO\ VHH WKH 6HFRQG 9DWLFDQ &RXQFLO 'HFUHH RQ 3ULHVWO\
II DQG WKH 'HFODUDWLRQ RQ &KULVWLDQ (GXFDWLRQ *UDYLVVLPXP

26. 6HH HVSHFLDOO\ WKH OHWWHU RI 3RSH 3DXO 9, RQ 6W 7KRPDV \$TXLQD
SS II DQG WKH &LUFXODU OHWWHU RI WKH 6DFUHG &RQJUHJ
3KLORVRSK\ LQ 6HPLQDULHV RI -DQXDU\

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2) 7+(6\$&5(' &21*5(*\$7,21)25 &\$7+2/, & ('8&\$7,21)25 7+(&255(
,03/(0(17\$7,21 2) 7+(\$32672/, & &2167,787,21

6\$3,(17,\$ &+5,67,\$1\$

7KH 6DFUHG &RQJUHJDWLRQ IRU &DWKROLF (GXFDWLRQ DFFR
&RQVWLWXWLRQ 6DSLHQWLD &KULVWLDQD SUHVHQWV WR WK
IROORZLQJ 1RUPV RI \$SSOLFDFWLRQ DQG RUGHUV WKDW WKH

3\$57 21(

*(1(5\$/ 12506

6HFWLRQ ,

1DWXUH DQG 3XUSR VH RI (FFOHVLDVWLFDO 8QLYHUVLWLHV D
\$SRVWROLF &RQVWLWXWLRQ DUWLFOHV

\$UWLFOH %\ WKH WHUP 8QLYHUVLW\ RU)DFXOW\ LV XQGHU
\$FDGHPLF &HQWHUV ZKLFK KDYH EHHQ FDQRQLFDOO\ HUHFWH
ULJKW WR FRQIHU DFDGHPLF GHJUHHV E\ WKH DXWKRULW\ RI

\$UWLFOH :LWK D YLHZ WR SURPRWLQJ VFLHQWLILF UHVHDU
VSHFLDOLJHG UHVHDFK FHQWHUV VFLHQWLILF SHULRGLFDO
VRFLHWLHV

\$UWLFOH 7KH WDVNV IRU ZKLFK VWXGHQWV FDQ EH SUHSDU
UHVHDFK RU WHDFKLQJ RU HOVH SDVWRUDO \$FFRXQW PXV
VWXGLHV DQG LQ WKH GHWHUPLQLQJ RI WKH DFDGHPLF GHJU
QDWXUH RI WKH VWXGLHV IRU ERWK

\$UWLFOH \$FWLYH SDUWLFLSDWLRQ LQ WKH PLQLVWU\ RI HY
SDVWRUDO ZRUN LQ HFXPHQLVP DQG LQ PLVVLQRDU\ XQGHU
XQGHUVWDQGLQJ GHIHQVH DQG GLIIXVLRQ RI WKH IDLWK \$

EH QRPLQDWHG RU FRQILUPHG DV 5HFWRU DQG 3UHVLGHQ

4. WR ZDWFK RYHU WKH DGPLQLVWUDWLRQ RI WHPSRUDOLWL
5. WR UHIHU PRUH LPSRUWDQW PDWWHUV WR WKH &KDQFHOC
6. WR VHQG HYHU\ HDU D VWDWLWVWLFDO VXPPDU\ WR WKH
DFFRUGLQJ WR WKH RXWOLQH SURYLGHG E\ WKDW VDPH &
\$UWLFOH 7KH 'HDQ RI WKH)DFXOW\ LV

1. WR SURPRWH DQG FRRUGLQDWH DOO WKH DFWLYLW\ RI WK
DQG WR VHH WR SURYLGHQJ ZLWK GXH VSHHG IRU WKHLU
2. WR FRQYRNH WKH)DFXOW\ &RXQFLO DQG SUHVLGH RYHU L
3. WR DGPLW RU H[FOXGH VWXGHQWV LQ WKH QDPH RI WKH 5
6WDWXWHV
4. WR UHIHU WR WKH 5HFWRU ZKDW LV GRQH RU SRSRVHG E
5. WR VHH WKDW WKH LQVWUXFWLRQV RI KLJKHU DXWKRULW
6HFWLRQ ,,,

7HDFKHUV

\$SRVWROLF &RQVWLWXWLRQ DUWLFOHV

\$UWLFOH Q 7HDFKHUV ZKR DUH SHUPDQHQWO\ DWWDFK

DQG WKH VSHFLDO 6WDWXWHV WKHUH LV QRWKLQJ WR LPSHGLPHQW VKRXOG H[LVW WKLW ZLOO EH FRPPXQLFDWHG LQ UHJDUG WR WKH PDWWHU

Q ,I SDUWLFXODU FLUFXPVWDQFHV RI WLPH RU SODFH LPSHGLPHQW WKH &KDQFHOOHU LV WR WDNH FRXQVHO ZLWK WKH WR ILQG D VXLWDEOH VROXWLRQ

Q ,Q)DFXOWLHV ZKLFK DUH XQGHU VSHFLDO FRQFRUGDW

\$UWLFOH 7KH WLPH LQWHUYDO EHWZHHQ SURPRWLRQV ZKGRZQ LQ WKH 6WDWXWHV

\$UWLFOH Q 7HDFKHUV ILUVW RI DOO WKH SHUPDQHUV RWKHU ,W LV DOVR UHFRPPHQGHG WKDW WKHUH EH FROODEOHVSHFLDOO\ WKRVH ZLWK VXEMHFWV WKDW KDYH DQ DIILQLW

Q 2QH FDQQRW EH DW RQH DQG WKH VDPH WLPH D SHUPDQ

\$UWLFOH Q 7KH 6WDWXWHV DUH WR VHW RXW ZLWK FDUGLVPLVVDO RI D WHDFKHU HVSHFLDOO\ LQ PDWWHUV FRQFHU

Q &DUH PXVW EH WDNHQ WKDW ILUVW RI DOO WKHVH PDWRU 'HDQ DQG WKH WHDFKHU KLPVHOI ,I WKH\ DUH QRW VHWW DQ DSSURSULDWH &RXQFLO RU FRPPLWWHH VR WKDW WKH ILWKH 8QLYHUVLW\ RU)DFXOW\ LWVHOI ,I WKLW LV QRW VXILFLHQ &KDQFHOOHU ZKR ZLWK WKH KHOS RI H[SHUWV HLWKHU RI SODFHV PXVW FRQVLGHU WKH PDWWHU DQG SURYLGH IRU D UHFRXUVH WR WKH +RO\ 6HH IRU D GHILQLWLYH VROXWLRQ D GHIHQG KLPVHOI

Q +RZHYHU LQ PRUH JUDYH RU XUJHQW FDVHV IRU WKH JF&KDQFHOOHU FDQ VXVSHQG WKH WHDFKHU IRU WKH GXUDWLR

\$UWLFOH 'LRFHVDQ SULHVWV DQG 5HOLJLRXV RU WKRVH W

6WXGHQWV

\$SRVWROLF &RQVWLWXWLRQ DUWLFOHV

\$UWLFOH /HJDO WHVWLPRQ\ DFFRUGLQJ WR WKH QRUP

DERXW D PRUDO OLIH LV WR EH JLYHQ IRU FOHUJ\ DQG VH
IRU DOO RWKHU SHUVRQV E\ VRPH HFFOHVLDVWLF

DERXW SUHYLRXV VWXGLHV LQ WKH VWXG\ WLWOH UHTXLUH
&RQVWLWXWLRQ

Q 6LQFH WKH VWXGLHV UHTXLUHG EHIRUH HQWU\ LQWR D
WKH)DFXOW\ KDV WKH ULJKW DQG GXW\ WR LQYHVWLJDWH ZI
ZKLFK WKH)DFXOW\ LWVHOI FRQVLGHUV QHFHVVDU\

Q \$ VXLWDEOH NQRZOHGJH RI WKH /DWLQ ODQJXDJH LV UH
VFLHQFHV VR WKDW WKH VWXGHQWV FDQ XQGHUVWDQG DQG
&KXUFK

Q ,I RQH RI WKH GLVFLSOLQHV KDV EHHQ IRXQG QRW WR K
DQ LQVXIIILFLHQW ZD\ WKH)DFXOW\ LV WR UHTXLUH WKDW W
DQ H[DPLQDWLRQ

\$UWLFOH Q %HVLGHV RUGLQDU\ VWXGHQWV WKDW LV
H[WUDRUGLQDU\ VWXGHQWV FDQ EH DGPLWWHG DFFRUGLQJ W

Q \$ SHUVRQ FDQ EH HQUROOHG DV DQ RUGLQDU\ VWXGHQW

\$UWLFOH 7KH WUDQVIHU RI D VWXGHQW IURP RQH)DFXOW
EHJLQQLQJ RI WKH DFDGHPLF \HDU RU VPHVWHU DIWHU D F
GLVFLSOLQDU\ VLWXDWLRQ %XW LQ DQ\ HYHQW QRERG\ FDQ
UHTXLUHPHQWV IRU WKH GHJUHH DUH IXOILOOHG DV WKH 6W

\$UWLFOH ,Q WKH QRUPV ZKLFK GHWHUPLQH WKH VXVSHQV
)DFXOW\ WKH VWXGHQW V ULJKW WR GHIHQG KLPVHOI PXVW

6HFWLRQ 9

2IILFLDOV DQG 6WDII \$VVLVWDQWV

\$SRVWROLF &RQVWLWXWLRQ DUWLFOHV

\$UWLFOH ,Q WKH 6WDWXWHV RU LQ VRPH RWKHU VXLWDEO
 ULJKWV DQG GXWLHV RI WKH 2IILFLDOV DQG 6WDII \$VVLVWDQ
 SDUWLFLSDWLRQ LQ WKH FRPPXQLW\ OLIH RI WKH 8QLYHUVLV

6HFWLRQ 9,

6WXG\ 3URJUDP

\$SRVWROLF &RQVWLWXWLRQ DUWLFOHV

\$UWLFOH 7KH 6WDWXWHV RI HDFK)DFXOW\ PXVW GHILQH Z
 REOLJDWRU\ DQG PXVW EH IROORZHG E\ DOO DQG ZKLFK DUH

\$UWLFOH (TXDOO\ WKH 6WDWXWHV DUH WR GHWHUPLQH W
 VWXGHQWV PXVW QRW RQO\ EH SUHVHQW EXW DOVR DFWLYHO
 SURGXFH WKHLU RZQ H[SRVLWLRQV

\$UWLFOH 7KH OHFWXUHV DQG SUDFWLFDO H[HUFLVHV DUH
 VWXG\ DQG SHUVRQDO ZRUN XQGHU WKH JXLGDQFH RI WKH W

\$UWLFOH Q 7KH 6WDWXWHV DUH DOVR WR GHWHUPLQH
 MXGJPHQWV DERXW FDQGLGDWHV

Q ,Q WKH ILQDO MXGJPHQW DERXW WKH FDQGLGDWHV IRU
 EH WDNHQ RI DOO WKH PDUNV UHFHLYHG LQ WKH YDULRXV W

Q ,Q WKH H[DPLQDWLRQV IRU WKH JLYLQJ RI GHJUHHV HV
 LQYLWH H[DPLQHUV IURP RXWVLGH WKH)DFXOW\

\$UWLFOH 7KH 6WDWXWHV DUH WR LQGLFDWH WKH SHUPDQ
 LQVWLWXWHG LQ D)DFXOW\ IRU VSHFLDO SXUSRVHV DQG LQO
 FRQFOXVLRQ

6HFWLRQ 9,,

\$FDGHPLF 'HJUHHV

\$SRVWROLF &RQVWLWXWLRQ DUWLFOHV

\$UWLFOH ,Q (FFOHVLDVWLFDO 8QLYHUVLVWLHV RU)DFXOWL
 WKH DFDGHPLF GHJUHHV DUH JLYHQ LQ WKH QDPH RI WKH 6X

\$UWLFOH 7KH 6WDWXWHV DUH WR HVWDEOLVK WKH QHFHV

GRFWULQDO GLVVHUWDWLRQ DQG WKH QRUPV IRU WKHLU SXEOL

\$UWLFOH \$FRS\ RI WKH SXEOLVKHG GLVVHUWDWLRQ PXVW
&DWKROLF (GXFDWLRQ ,W LV UHFRPPHQGHG WKDW FRSLHV D
OHDVW WKRVH RI WKH VDPH UHJLRQ ZKLFK GHDO ZLWK WKH

\$UWLFOH \$XWKHQWLF GRFXPHQWV UHJDUGLQJ WKH FRQIHU
\$FDGHPLF \$XWKRULWLHV DFFRUGLQJ WR WKH 6WDWXWHV DC

WKH VWXG\ SURJUDP WKH OLEUDU\ DQG WKH GXW\ RI WKH D

LQ WKH ILUVW F\FOH

D WKH SKLORVRSKLFDO GLVFLSOLQHV QHHGHG IRU WKHRORJ
WRJHWKHU ZLWK LWV PDLQ SDUWV DQG LWV KLVWRULFDO HY

E WKH WKHRORJLFDO GLVFLSOLQHV QDPHO\

- 6DFUHG 6FULSWXUH LQWURGXFWRQ DQG H[HJHVLV
- IXQGDPHQWDO WKHRORJ\ ZKLFK DOVR LQFOXGHV UHIHUV
DQG DWKHLVP
- GRJPDWLF WKHRORJ\
- PRUDO DQG VSLULWXDO WKHRORJ\
- SDVWRUDO WKHRORJ\
- OLWXUJ\
- &KXUFK KLVWRU\ SDWURORJ\ DUFKDHRORJ\
- &DQRQ ODZ

F WKH DX[LOLDU\ GLVFLSOLQHV QDPHO\ VRPH RI WKH VFLH
ODQJXDJHV LQVRIDU DV WKH\ DUH UHTXLUHG IRU WKH IROORJ

LQ WKH VHFRQG F\FOH WKH VSHFLDO GLVFLSOLQHV HVWDE
GLYHUVH VSHFLDOL]DWLRQV RIIHUG DORQJ ZLWK WKH SUDF
ZRUN

LQ WKH WKLUG F\FOH WKH 6WDWXWHV DUH WR GHWHUPLQH
RQHV WRJHWKHU ZLWK SUDFWLFDO H[HUFLVHV DQG VHPLQDU

\$UWLFOH ,Q WKH ILIWK \HDU EDVLF F\FOH GLOLJHQW FD
WDXJKW ZLWK RUGHU IXOOQHVV DQG ZLWK FRUUHFW PHWKR
HIIHFWLYHO\ D VROLG RUJDQLF DQG FRPSOHWH EDVLF LQVW
WR JR RQ WR WKH QH[W F\FOH V KLJKHU VWXGLHV RU WR H[H

\$UWLFOH %HVLGHV H[DPLQDWLRQV RU HTXLYDOHQW WHVW
RI WKH VHFRQG F\FOH WKHUH LV WR EH D FRPSUHKHQVLYH H
VWXGHQW SURYHV WKDW KH KDV UHFHLYHG WKH IXOO DQG VF
F\FOH

\$UWLFOH ,W EHORQJV WR WKH)DFXOW\ WR GHWHUPLQH XC
FRPSOHWHG D QRUPDO VL[\HDU SKLORVRSK\ WKHRORJ\ FR
RWKHU DSSURYHG LQVWLWXWLRQ RI KLJKHU OHDUQLQJ PD\ E
RI WKHLU SUHYLRXV VWXGLHV DQG ZKHUH QHFHVVDU\ SUHV

6HFWLRQ ,,

)DFXOW\ RI &DQRQ /DZ

\$SRVWROLF &RQVWLWXWLRQ DUWLFOHV

\$UWLFOH ,Q D)DFXOW\ RI &DQRQ /DZ ZKHWKHU /DWLQ RU

IRUWK ERWK RI WKH KLVWRU\ DQG WH[WV RI HFFOHVLDVWLFD

\$UWLFOH 7KH REOLJDWRU\ GLVFLSOLQHV DUH

LQ WKH ILUVW F\FOH

D WKH JHQHUDO IXQGDPHQWDOV RI FDQRQ ODZ

E WKH HOHPHQWV RI 6DFUHG 7KHRORJ\ HVSHFLDOO\ RI HFFO

SKLORVRSK\ HVSHFLDOO\ HWKLFV DQG QDWXUDO ODZ ZKLFK

VWXG\ RI FDQRQ ODZ ,W LV XVHIXO WR DGG HOHPHQWV IURP

ZLWK WKH MXULGLFDO VFLHQFHV

LQ WKH VHFRQG F\FOH

D WKH &RGH RI &DQRQ /DZ ZLWK DOO LWV YDULRXV SDUWV D

E WKH FRQQHFWHG GLVFLSOLQHV ZKLFK DUH WKH SKLORVR

IXQGDPHQWDOV RI 5RPDQ ODZ HOHPHQWV RI FLYLO ODZ WKH

ZULWH D VSHFLDO GLVVHUUWDLRQ

LQ WKH WKLVG F\FOH WKH 6WDWXWHV DUH WR GHWHUPLQH

H[HUFLVHV DUH WR EH SUHVFULHG DFFRUGLQJ WR WKH QDV

VWXGHQWV

\$UWLFOH Q :KRHYHU VXFFHVVIXOO\ FRPSOHWHV WKH SK

RUGLQDU\ VHPLQDU\ RU LQ VRPH RWKHU DT9H RWKHU DTV W/F10

\$UWLFOH ,W EHORQJV WR WKH)DFXOW\ WR GHWHUPLQH XC
 ELHQQLXP RI SKLORVRSK\ LQ DQ DSSURYHG LQVWLWXWLRQ R
 WKHRORJ\ FRXUVH LQ DQ RUGLQDU\ VHPLQDU\ RU HTXLYDOHQ
 F\FOH WDNLQJ DFFRXQW RI WKHLU SUHYLRXV VWXGLHV DQG
 DQG H[DPLQDWLRQV

6HFWLRQ ,9

2WKHU)DFXOWLHV

\$SRVWOLF &RQVWLWXWLRQ DUWLFOHV

\$UWLFOH ,Q DFFRUGDQFH ZLWK DUWLFOH RI WKH &RQVW
 (GXFDWLRQ ZLOO JUDGXDOO\ JLYH VSHFLDO QRUPV IRU WKH
 H[SHULHQFH DOUHDG\ JDLQH LQ WKHVH)DFXOWLHV DQG ,QV

\$UWLFOH ,Q WKH PHDQWLPH LQ \$SSHQGL[, WKHUH LV D
 VWXGLHV EHVLGHV WKH WKHRORJLFDO FDQRQLFDO DQG SH
 VHFWRQV RI WKHVH 1RUPV RI \$SSOLFDWLRQ ZKLFK DW WKH
 DFDGHPLFDOO\ DQG DUH LQ H[LVWHQFH DV)DFXOWLHV ,QVW
 6DFUHG &RQJUHJDWLRQ IRU &DWKROLF (GXFDWLRQ ZLOO DGG
 DSSURSULDWH LQGLFDWLQJ IRU WKHVH 6HFWLRQV WKHLU VS
 GLVFLSOLQHV WR EH WDXJKW DQG UHVHDUFKHG

+LV +ROLQHVV -RKQ 3DXO , E\ GLYLQH 3URYLGHQFH 3RSH K
 SXEOLVKHG HDFK DQG HYHU\ RQH RI WKHVH 1RUPV RI \$SSOLF
 QRWZLWKVWDQGLQJ

**LYHQ IURP WKH RIILFHV RI WKH 6DFUHG &RQJUHJDWLRQ IRU
 OHPRULDO RI 6W &DWKHULQH RI 6LHQD 9LUJLQ DQG 'RFRU*

***DEULHO ODULH &DUGLQDO *\$5521(
 3UHIHFW**

**\$QWRQLR ODULD -\$9,(55(257\$6
 7LWXODU \$UFKELVKRS RI OHWD
 6HFUHWDU**

\$33(1',; ,

**\$FFRUGLQJ WR \$UWLFOH RI 1RUPV RI \$SSOLFDWLRQ
 1RUPV IRU 'UDZLQJ 8S 6WDWXWHV**

7DNLQJ LQWR DFFRXQW ZKDW LV FRQWDLQHG LQ WKH \$SRVWF
DQG OHDYLQJ WR WKHLU RZQ LQWHUQDO UHJXODWLRQV ZK
8QLYHUVLWLHV RU)DFXOWLHV PXVW PDLQO\ GHDO ZLWK WKH

1. 7KH HQQ DL\$H RE DW X WWH DLGH \$X UFSJUDK HR IP WDCW8Q/L YHWH F/LW\ RU
IRUHZRUG

2. 7KH LQRY H y QPCH QW DQ W\$T H & X B QOFH O ORJU DW K HP \$BQWR Q D G WDF
H[DFW IXQFWLRQV DUH KRZ WKH SHUVRQDO DXWKRULWLH
LV KRZ WKH FROOHJLDO DXWKRULWLHV RU WKH PHPEHUV
WKHLU WHUP LV

3. 7KH LQRY H y QPCH QW DQ W\$T H & X B QOFH O ORJU DW K HP \$BQWR Q D G WDF
WKH SHUPDQH QW DQG QRQ SHUPDQH QW DUH GLYLGHG Z
DUH KLUHG QDPHG SURPRWHG DQG KRZ WKH\ FHDVH IXQ

4. 7KH VWXGHQWV UHTXLVLWHV IRU HQUROOPHQW DQG WK

5. 7KH RIILFLDOV DQG VWDII DVVLVWDQWV WKHLU GXWLHV

6. 7KH VWXG\ SURJUDP ZKDW WKH RUGHU RI VWXGLHV LV L
ZKDW GLVFLSOLQHV DUH WDXJKW ZKLFK DUH REOLJDWRUV
SUDFWLFDO H[HUFLVHV ZKLFK H[DPLQDWLRQV DQG WHVW

7. 7KH DFDGHPLF GHJUHHV ZKLFK GHJUHHV DUH JLYHQ LQ
FRQGLWLRQV

8. ODWWHUV UHODWLQJ WR WHDFKLQJ WKH OLEUDU\ KRZ L
RWKHU GLGDFWLF KHOSV DQG VFLHQWLILF ODERUDWRULHV

9. (FRQRPLF PDWWHUV WKH ILQDQFLDO HQGRZPHQW RI WK
DGPLQLVWUDWLRQ QRUPV IRU SD\LQJ WKH VWDII DVVLVW
SD\PHQWV EXUVHV DQG VFKRODUVKLSV

10. 5HODWLRQVKLSV ZLWK RWKHU)DFXOWLHV DQG ,QVWLWXV

\$33(1',; ,,

\$FFRUGLQJ WR \$UWLFQH RI WKH 1RUPV RI \$SSOLFDFWLRQ
'LYLVLRQV RI (FFOHVLDVWLFDO 6WXGLHV DV 1RZ ([LVWL

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1RWH 7KHHV LETQBT ([R 71001360rg ('LYLVLR)Tj0LI YHQ LQOQ W 0

4. %LEOLFDO VWXGLHV D)DFXOW\ RI %LEOLFDO 6FLHQFH D
5. &DWHFKHWLFDQ VWXGLHV D VSHFLDOLJHG 6HFWRU LQ D 7
6. (FFOHVLDVWLFDQ 2ULHQWDO VWXGLHV D)DFXOW\ RI (FFO
7. (GXFDWLRQ VWXGLHV D)DFXOW\ RI (GXFDWLRQ
8. &KXUFK +LVWRU\ VWXGLHV D)DFXOW\ RI &KXUFK +LVWRU\)DFXOW\
9. &RPSDUDWLYH &DQRQLFDQ &LYLO -XULGLFDQ VWXGLHV
10. &ODVVLFDO DQG &KULVWLDQ /LWHUDU\ VWXGLHV D)DFXO
11. /LWXUJLFDQ VWXGLHV D)DFXOW\ D VSHFLDOLJHG 6HFWRU
12. ODULRORJLFDQ VWXGLHV D VSHFLDOLJHG 6HFWRU LQ D 7
13. OHGLHYDO VWXGLHV DQ ,QVWLWXWH DG LQVWDU D VSHF &DQRQ /DZ RU 3KLORVRSK\
14. OLVVLRORJLFDQ VWXGLHV D)DFXOW\ RI OLVVLRORJ\ D V
15. ORUDO VWXGLHV D VSHFLDOLJHG 6HFWRU LQ D 7KHRORJ\
16. 6WXGLHV LQ 6DFUHG 0XVLF DQ ,QVWLWXWH DG LQVWDU
17. (FXPHQLFDQ VWXGLHV D VSHFLDOLJHG 6HFWRU LQ D 7KH
18. \$QFLHQW 2ULHQWDO VWXGLHV D)DFXOW\ RI (DVWHUQ \$Q RU 3KLORVRSK\)DFXOW\
19. 3HGDJRJLFDQ VWXGLHV D)DFXOW\ RI 3HGDJRJ\ D VSHFL (GXFDWLRQ)DFXOW\
20. 3DVWRUDO VWXGLHV D VSHFLDOLJHG 6HFWRU LQ D 7KHRO
21. 3DWULVWLF VWXGLHV D VSHFLDOLJHG 6HFWRU LQ D 7KHR 6WXGLHV LQ 3V\FKRORJ\ DQ ,QVWLWXWH DG LQVWDU D V 3KLORVRSK\ RU 3HGDJRJ\ RU (GXFDWLRQ

b b b

k b &RS\ULJKW /LEUHULD (GLWULFH 9DWLFD