

' DMM V SHSW MM MM
3DFH | PLQ

%ORRP\TV 7D[RQRPI	\$OLJQPHQW WR '36&' &XUULF
(YDOXDWRQ 6\QWKHLV \$QDO\VLV \$SSC	8WHP XLFDOHOP HQW UK WP PHBG KDUFRQ WP EUH DQGIURP VR FRP SDUHDQG FRQNDWP XLFURP YDURXVKLVRIUFDSHURGV DQGFXOMUHV

6WDQGDQ"5S1B^u %o•u3Ó83@ Å "85`

\$57 0 ,,, . &DMURUH VVH WP EUH RI QRQ SLMKHG SHUFXMRQ LQWKP HQW , GHQMA P DQI IHP DQI DQG FKLOUHQV
YRIEHV

\$57 0 ,,, . ' HYLVH VVGHQWFUHDWGL FUDMUD I RURENIFVYH HYDQDMRQ RI SHURUP DQFHV DQG FRP SRVMRQV

\$57 0 ,,, . , GHQMA DQG VXSSRUASHUVRQDOUHDFMRQV VR D P XMFDOHDFMRQ

\$1 \$/ <= (, 1 &2 1 7(; 7

6VQGDUG 8 QGHUW DQG DQDQ] H DQG GHMFUEH VVH DUW LQ VVHLU KLW RULDO VRFLDO DQG FXOXLDOFRQW[W

\$57 0 ,9 . ' HVFUEH KRZ HDQ HQW RI P XMF DUH XVHG LQ H DP SODIURP ZRUQ FXOXLHV XVQJ P XMF SHURUP HG DQG
SUHMHQWGL LQ NQGHJJ DUWQ

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6VQGDUG \$ SSQ VNLOV DQG NQRZ OHGJ H VR SHURUP \$ SSQ U

\$ V V H V V P H Q W

6XP P DM\H) RUP DM\H \$ WHWP HQW 3HU RUP DQFH 7DVN V 2VKHU(YLGHQFH| LH BUH DWHWP HQW 8QW
7HW 4X]HV (WD V ([LWFENHW DQG &) 8V

3UH DWHWP HQW (QM\ WFNHDWHWQJ SURUNQRZ OGJH RI JHRJUDSKIF OFDMRQ RI %UD LODQG VH FXOMUH RI
LWSHRSOI
) RUP DM\H DWHWP HQW |) RUP DM\H DWHWP HQW RFFXUMURXJKPLD Ø

/ HVRQ \$ FFRP P RGDMRQV | 6SHFLDOQHGV DQG JIWMG

6SHFLDOQHGV DGGUHWG DV QHHGHG

: KDWZ LOA RX GR LI WXGHQW GR QRWXQGHUWDQG" | / LVIQMUHQMRQ VNDMULH/

, ZLOMDFK WH OMURQ XVLQJ DGLI HUHQWP HMURG XQMD, ILQG RQH WKDWZR ,

'36&' / H V V R Q 3 O D Q

7HDFKHU1 DP H P DUNVDO RRUH

* UDGHV | VK

8 QLW \$1UR %UD] LQDQ O XMF DQG &XOMUH /

7LVH] BQJ DGD O XMF DQG &XOMUH RI VMH \$UWURV 4 XIOP ERDV

6XENHFW&OWW] HQHUDO O XMF \$SSUFLDMRQ

' DVA V BHSHW VK

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%ORRP\TV 7D[RQRPA	\$OLJQPHQW WR '36&' &XUULF
(YDOXDWL RQ 6\QWKHVLV \$QDO\VLV \$SSC	8WHP XVFDOHDP HQVW UK WP PHBG KDUP RQ WP EUH DQGIURP VR FRP SDUHDQG FRQNDWP XVF IURP YDURXV/KLVRUFDOSHURGV/ DQG FXOMUH/

6 W D Q G D U G V D Q G 2 E M H F W L Y H V

/LWWKH WWDQGDUG V LQNG IUHQDQO OQJ XDJH DQG ZLWKH GHMFUWLRU HJ| FWGHQWZ LQDGG DQG VXEWDFWUDFWLRQV ZLWKH
XQOH GHGRP LQDWRUV | 1) \$ |

0 L F K L J D Q 6 W D W H 0 X V L F 6 W D Q G D U G V

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6VWDQGDUG \$SSO VNLOV DQG NQRZ OHGJ H VR SHU RUP LQ VKH DUW

\$57 0 , . ' HP RQWUDM XHV RI VKH YRFH SURSHULQWKP HQMDOMFKQITXH DQG VMDG EHDX

\$57 0 , . 6LQJ DQG SODI P XMF IURP D YDUHW RI VWGW DQG FXOMUH

\$57 0 , .. 66LQJ DQG SODI MWSUHWLYHO XMQIQU H WHP H RSSRVMMV RI GOEHH YFm \$

\$57 0 ,,, . 8 VH LQYHQMG RUW\QGDUG QRW\IRQ VR W\QFUEH LQFHDMQJ Q GLI\FX\W\K VWP V DQG P H\BGLH
\$57 0 ,,, . ' HMFUEH VKH P XMF SHURUP HG DQG SUH\QMG LQ NQGHJ\DJM\Q E P RY\QJ GUDZ\QJ RUW\URXJK RMKH
DSSURSUDM UHSRQMV
\$57 0 ,,, . ,QW\GX\H P XMF YRFDEX\Q HP SKDM\QJ RSSRM\MM LH IDWDQG V\BZ \B\XG DQG VR\W
\$57 0 ,,, . &DM\J R\J H VKH VP EUH RI QRQ SW\KHG SHUFX\IRQ LQW\K P HQW , GHQ\A P D\O I IHP D\O I DQG FKLOUHQV
YRIEHV
\$57 0 ,,, . ' HY\H W\GHQ\FUHD\G F\J\H D\Q I RUREM\W\H HYD\DMRQ RI SHURUP DQF\H DQG FRP SRV\IRQV
\$57 0 ,,, . ,GHQ\A DQG V\XSSRU\SHU\RQDOUHDF\IRQV VR D P XMFDOH\HDF\IRQ

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6\QGDUG 8 QGHUW\Q DQG DQD\O] H DQG GHMFUEH VKH DUW LQ VKHLUKLW\UFDO VRFLDO DQG FX\W\UDCFRQ\W[W
\$57 0 ,9 . ' HMFUEH KRZ H\O P HQW RI P XMF DUH XHG LQ H DP S\O\IURP ZRU\G FX\W\UHV X\QJ P XMF SHURUP HG DQG
SUH\QMG LQ NQGHJ\DJM\Q

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6\QGDUG \$ SSO VNLO\Y DQG NQRZ \O\GJ H V\H SHURUP LQ VKH DUW

\$57 0 , 6\QJ DQG S\O\ Z L\K H SUH\IRQ DQG W\FKQLFDODFFXUD\ D GLY\H\H UHSU\W\H RI YRFDO DQG LQW\K P HQW\O
Q\MDMXUH Z L\K DQG Z L\KRX\W\Q\W\IRQ LQ\O\GLQJ V\HDF\IRQV SHURUP HG IURP P HP RU

\$57 0 , 6\QJ DQ R\W\QDM\H

\$57 0 , 6\QJ DQG S\O\ DFFXUD\O DV D VR\W\W DQG LQ ERM\ VP DODQG \O\J H HQW\P E\O\ V Z L\K DSSURSUDM W\FKQJ\XH
DQG EUH\DM\K FRQ\W\O

\$1 \$ / <=

6\QGDUG \$ QD\O] H GHMFUEH DQG HYD\DM\H Z RUNV RI DUW

\$57 0 ,,, ,GHQ\A DQG GHMFUEH VSH\W\H P XMFDOH\H P HQW DQG HY\QW LQ D J\Y\H DXUD\H DP S\O\ X\QJ DSSURSUDM
W\W\UP LQ\O\J\

\$57 0 ,,, \$ QD\O] H VKH XHV RI P XMFDOH\H P HQW LQ DXUD\H DP S\O\IURP GLY\H\H J HQU\H DQG FX\W\UHV

\$57 0 ,,, ' HP RQW\UDM\ NQRZ \O\GJ H RI VKH EDM\ S\QFIS\O\ RI P HMU UK VWP VRQD\O\ LQ\W\YD\O\ FKRU\G DQG
KDUP RQF SURUH\W\RQV VKURXJK DQD\O\W\

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6\QGDUG 8 QGHUW\Q DQD\O] H DQG GHMFUEH VKH DUW LQ VKHLUKLW\UFDO VRFLDO DQG FX\W\UDCFRQ\W[W

\$57 0 ,9 . ' HMFUEH GLW\Q X\W\K\Q FKDU\W\U\W\H RI UHSU\H HQW\W\H P XMF J HQU\H DQG V\W\O\IURP D YDU\W RI
FX\W\UHV

\$57 0 ,9 &RP SDUH LQ V\H\HDOFX\W\UHV RI VKH ZRU\G IXQF\IRQV P XMF V\H\H\H UR\O\IURP P XMFIDQV DQG FRQ\W\IRQV
XQGHUZ KIEK P XMF LV\WSLF\O SHURUP HG

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6 VDQGDUG 5 HFRJ QI] H DQD0] H DQG GD

%DQGHG / HDUQLQJ &RQQHFWRQ | / LWWKH

\$57 0 , . 5 HSQFDMM VKRUWUK WKP IF DQG P HBGF SDMMUQV

\$57 0 , . 30A D WMDG EHDWQD JURXS Z KLOI RMKHUWXGHQW VIQJ D VRQJ

\$1 \$ / <=(
6VZQGDUG \$ OOMXGHQW Z LOODQDO] H GHMFUEH DQG HYDOXDMH Z RUNV RI DUW

\$57 0 ,,, . , GHQMA HFKR VRQJV DQG UHFRJQJ H VVH VDP H DQG GLI HUHQW/HFMRQV RI VVH P XMF Z KHQ SUHHQMG DXUDQ

\$57 0 ,,, . 8 VH LQYHQMG RUWZQGDUG QRWDMRQ VR WDCMFUEH LQFHDMQJ O GLI IFLXONUK WKP V DQG P HBGHVV

\$57 0 ,,, . ' HFUEH VVH P XMF SHURUP HG DQG SUHHQMG LQ NQGHU DJMQ E P RYIQU GUDZIQU RUMURXJK RMKHU
DSSURSUDM UHSRQMV

\$57 0 ,,, . , QMURGXH P XMF YRFDEXOU HP SKDMI IQJ RSSRMVMV LH IDWDQG VBZ BXG DQG VRIW

\$57 0 ,,, . &DMJRUJ H VVH WIP EUH RI QRQ SLMKHG SHUFXWRQ LQWMP HQW , GHQMA P DOI IHP DOI DQG FKLOUHQV
YRIFHV

\$57 0 ,,, . ' HMVH VVGHQMFUHDAG FUIMUD I RUREMFWVH HYDOXDMRQ RI SHURUP DQFHV DQG FRP SRVWIRQV

\$57 0 ,,, . , GHQMA DQG VSSRUASHUWQDOUHFMRQV VR D P XMFDOHDFMRQ

\$1 \$ / <=(, 1 &2 1 7(; 7
6VZQGDUG 8 QGHUWZQG DQDO] H DQG GHMFUEH VVH DUW LQ VVHLUKLWRLUFDO VRFLDO DQG FXOXLUDOFRQW[W

\$57 0 , 9 . ' HFUEH KRZ HOP HQW RI P XMF DUH XVHG LQ H DP S0V1URP Z RUQ FXOKUHV XIQJ P XMF SHURUP HG DQG
SUHHQMG LQ NQGHU DJMQ

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6VZQGDUG \$ SSO VNLOV DQG NQRZ OIGJ H VVH SHURUP LQ VVH DUW

\$57 0 , 6LQJ DQG S0A Z LK H SUHWIRQ DQG WFKQLFDFFXUDP D GLYHUH UHSUWLUH RI YRFDDQG LQWMP HQMO
OMUDXUH Z LK DQG Z LMKRXNQRWIRQ LQFOXGLQJ VHFMRQV SHURUP HG IURP P HP RU

\$57 0 , 6LQJ DQG RWLQDMR

\$57 0 , 6LQJ DQG S0A DFFXUDMO DV D VRQW DQG LQ ERW VP DODQG OJH HQHP E0V Z LK DSSURSUDM WFKQLTXH
DQG EUHDM FRQWRO

\$1 \$ / <=(
6VZQGDUG \$ QDQ] H GHMFUEH DQG HYDOXDMH Z RUNV RI DUW

\$57 0 ,,, . , GHQMA DQG GHMFUEH VSHUWFP XMFDOHOP HQW DQG HYHQW LQ DJYHQ DXUDCH DP S0V XIQJ DSSURSUDM
WMP LQROJ\

\$57 0 ,,, . \$QDQ] H VVH XVHV RI P XMFDOHOP HQW LQ DXUDCH DP S0V1URP GLYHUH JHQHV DQG FXOKUHV

\$57 0 ,,, . ' HP RQWUDM NQRZ OIGJ H RI VVH EDMF SUQFLS0V RI P HMU UK] 7

\$57 0 ,9

3DW RXWZ RUNKHHZ LMK QUEV VR MH VRQJ (DFK WMGHQWZ UMMW MH (QJOK WDCMDMRQ GH VWR MH 3RUWJ XI VY`

/ HVRQ & QVXUH

5HFDS HOP HQW ODLQHG ([LWWFH WQGLYLG DODWHWP HQW

5 HI OFWIRQ

'36&' / HVVRQ 3ODQ

7HDFKHU1 DP H P DUNWD0 RRUH

* UDGHV | VK

8QLW \$IUR %UDLQDQO XMF DQG & XOMUH/

7LVQH &DSRHUD \$QJ RQ

6XENHFW&OWW T HQHUDO0 XMF 0 XMF \$SSUHFDWIRQ

' DWA V FHSW VK VK

3DFH | PLQ

%ORRPTV 7D[RQRPI]	\$OLJQPHQW WR '36&' & XUULF
(YDOXDWL RQ 6\QWKHVLV \$QDO\VLV \$SSC	8WDHP XLFDCDHP HQW UK WP PHBG KDUPRQ WP EUH DQGI RUP VR FRP SDUH DQG FRQNDWP XLFURP YDURXVKLWRIUDOSHURGV/ DQGFXOMUH/

6WDQGDUGV DQG 2EMHFWL YHV

/ LWWFH WQGDUG V LQNG TUIHQGQO OQJ XDJH DQG ZLKH GHMFLISRUH J| FVXGHQWZ LQDGG DQG VXEUDFWUDFWRQV ZLKH
XQDNH GHQRP LQDWRUV | 1) \$ |

OLFKLJDQ 6WDWH 0XVLF 6WDQGDUGV

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6VQGDUG \$SSQ VNLCV DQG NQRZ OIGJH VR SHURUP LQ VKH DUW

\$570 , . ' HP RQWUDM XVHVR VKH YRFH SURSHULQWKP P• Å, o H m

\$57 0 , . 6LQJ DQG SDA H SUHWHYD XWQ LQJ H WHP H RSSRVMM RI G QDP IFV DQG LQMLSUHWDMRQ

\$57 0 , . 6LQJ P HBGH VZ LK FRQILGHQFH LQ D QWJ H JURXS

\$57 0 , .) RQZ FXHV RI VWH FRQXFMRUVR EHJ LQ DQG I RUD FXWRI

\$57 0 , . 3O A D VMDG EHDW

\$57 0 , . 5HSQFDMM VRUNWK VWP LF DQG P HBGF SDMMUQV

\$57 0 , . 3O A D VMDG EHDW LQ D JURXS Z KLOI RMKHUWXGHQW VQJ D VRQJ

\$1 \$ / <=(
6VZQGDUG \$ OOMXGHQW Z LOODQDO] H GHMFUEH DQG HYDQDM Z RUNV RI DUW

\$57 0 ,,, . , GHQMA HFKR VRQJ V DQG UHFRJ QJ H VWH VDP H DQG GLI HUHQW H FMRQV RI VWH P XMF Z KHQ SUHWHQMG DXUDQ

\$57 0 ,,, . 8 VH LQYHQMG RUWZQGDUG QRWIRQ VR WDQMFUEH LQFUHDVQJ O GLI I FXONUK VWP V DQG P HBGH V

\$57 0 ,,, . ' HVFUEH VWH P XMF SHURUP HG DQG SUHWHQMG LQ NQGHJ DUMQ E P RYQJ GUZ LQJ RUWURXJK RMKHU
DSSURSUDMM UHVSROHV

\$57 0 ,,, . , QMURGXFH P XMF YRFDEXOU HP SKDM LQJ RSSRVMM LH IDWDQG VBRZ BXG DQG VRIW

\$57 0 ,,, . &DMURUJ H VWH VWP EUH RI QRQ SLVKG SHUFXMRQ LQWVWP HQW , GHQMA P DQI IHP DQI DQG FKLOUHQV
YRIFHV

\$57 0 ,,, . ' HYLVH WXGHQWFUHDHG FUJWUD I RURENIFVH HYDQDMRQ RI SHURUP DQFH V DQG FRP SRVIRQV

\$57 0 ,,, . 0 ,,, . 0

\$57 0 ,,, \$QDQ] H V K H X V H / R I P X V F D O H Q P H Q W L Q D X U D Q [D P S Q M V I U R P G L Y H U H J H Q U H V D Q G F X O X U H V

\$57 0 ,,, ' H P R Q M U D M N Q R Z O G J H R I V K H E D M F S U Q F I S Q V R I P H M U U K V K P V R Q D O V L Q M U Y D Q F K R U G V D Q G K D U P R Q F S U R J U H M R Q V V K U R X J K D Q D O V V

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6 V D Q G D U G 8 Q G H U V D Q G D Q D Q] H D Q G G H V F U E H V K H D U W L Q V K H L U K I W R U F D O V R F L D O D Q G F X O X U D C F R Q M H [W

\$57 0 , 9 ' H M F U E H G L V M Q X V K L Q J F K D U D F M U M M V R I U H S U M H Q M M H P X M F J H Q U H V D Q G V V Q M V I U R P D Y D U H W R I F X O X U H V

\$57 0 , 9 & R P S D U H L Q V M H U D O F X O X U H V R I V K H Z R U Q I X Q F M R Q V P X M F V H U H V U R Q M V I P X M F D Q V D Q G F R Q G M R Q V X Q G H U Z K I F K P X M F V W S L F D Q S H U R U P H G

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6 V D Q G D U G 5 H F R J Q J H D Q D Q] H D Q G G H V F U E H F R Q Q H F M R Q V D P R Q J V K H D U W E H M Z H H Q V K H D U W D Q G R V K H U G L V F L S O Q H V E H M Z H H Q V K H D U W D Q G H Y H U G D \ Q H

\$ V V H V V P H Q W

6 X P P D M Y H) R U P D M Y H \$ W H M P H Q W 3 H U R U P D Q F H 7 D V N V 2 V K H U (Y L G H Q F H | L H B U H D W H M P H Q W 8 Q I W 7 H W 4 X I] H V (W D V ([W W I F N H W D Q G &) 8 V

3 U H D W H M P H Q W (Q M I W F N H M D W H M Q J S U R U N Q R Z O G J H R I J H R J U D S K I F G F D M R Q R I % U D I L D Q G V K H F X O X U H R I W S H R S O I

) R U P D M Y H D W H M P H Q W R F F X U M U R X J K R X V K H O M R Q X V I Q J D Y D U H W R I P H M R G V S D U M H U S H H U H Y D Q D M R Q R U D O D Q G Z U M M Q V M D F K H U D W H M H G V S R V F K H F N V

3 H U R U P D Q F H 7 D V N V , Q G L Y G X D O V P D O D Q G Z K R O J I J U R X S S H U R U P D Q F H V D M N V

6 X P P D M Y H D W H M P H Q W 6 X P P D M Y H D W H M P H Q W L Q F O G H V S H U R U P D Q F H V D M N V Z U M M Q U H M S R Q M H V D Q G R U D O Z U M M Q U H O F M R Q D Q G V H D W H M P H Q W

, Q V W U X F W L R Q D O / H D U Q L Q J 3 O D Q

/ H D U Q L Q J \$ F M Y L W H V | % U H I V X P P D U G H V F U I S M R Q R I K R Z \ R X Z L C O R U F K H M U D M L Q M M K F M R Q D O E H M S U D F M H V G X U I Q J W M V O M R Q V R H Q X U H V M G H Q M P D M M J L H | W H H Q M D M G , Q M M K F M R Q O D Y D Q R O D G H D Q H + X Q M U H M F

/ H D U Q L Q J \$ F M Y L W H V L Q F O G H O D U Q L Q J E U R M V M D F K H U D Q G V X G H Q W F D I I R Q I Q J P X M F D Q G P R Y H P H Q A D F M Y L W H V Y L X D O I Q S X I R Q S U R M F V R U U H F R U G L Q J V S O H G R Q F G D Q G G P R Q M U D M G E V M D F K H U

3 U R F H G X U H

* U H M Q J

(Q M I W F N H M S U H D W H M P H Q W ^ 1 D P H D Q \$ I U R % U D I L D Q D U W R U P W K D W V D W S H R I P D U M D O D U M D Q G G D Q F H '

9 I C H R F D S 7 K H % H U P E D X & D S R H I L D \$ Q R D K M S V Z Z Z \ R V M E H F R P Z D M K " Y 9 [' + I B M I

0 D N H D U R G D R Q V K H I C R U D Q G K D Y H V X G H Q W V M D Z D I U R P W

7 Z R V X G H Q W H Q M U V K H U R G D D Q G S O A F D S R H I L D 6 V X G H Q W P D A Q R W R X F K H D F K R M K H U

+ U K Q J K W Y R F D E X O U V M P V D G M W D P R X Q W R U D J H J U R X S 8 V H 3 3 7 Z L M F R Q B U X O S F X U H V R U H Q I R U F H Y R F D E X O U V & D S R H I L D

5 RGD

%HUP EDX

7RTXH

) RUP DMWH DWHP HQW 6WGHQW SDUQH UDQG GHILQH GHMFUEH GLVFXW YRFDEXOU VMJP V

3HURUP DQFH WDN &UDHM &DSRHLD VRTXHV XVLQJ DYDLOEOLQWXP HQW SIDQR JXLWU WDP ERXUQH VKDNHU

([LWMFH, QGLYLGXDODWHP HQW 6WGHQW GHILQH YRFDEXOU VMJP V

%DQGHG / HDUQLQJ &RQQHFVRQ | / LWWKH GJ LWDQH VRXUFH WKDWZ LOEH XVHG | LWWDFWVWV VRXOG EH DOJCHG W

'36&' / H V V R Q 3 O D Q

7HDFKHU1 DP K

/ LWWKH WWDQGDUG V LQ NG I UHQQDQD QDQJ XDJH DQG Z LMK VH H GHVFLWU HJ | SWXGHQWZ LOOG DQG DQG VXEWDFWUDFWLRQV Z LMK
XQDNH GHGRP LQDMRU | 1) \$ |

0 L F K L J D Q 6 W D W H 0 X V L F 6 W D Q G D U G V

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6VWDQGDUG \$SSO VNLOV DQG NQRZ OHGJ H VR SHURUP LQ VH DUV

\$57 0 , . ' HP RQWUDM XVHV RI VH YRIFH SURSHULQWKP HQWUDMFKQJXH DQG VMDG EHDW

\$57 0 , . 6LQJ DQG SODA P XMF IURP D YDUHW RI VWQMV DQG FXOMUHV

\$57 0 , . 6LQJ DQG SODA H SUHMLYHO XMOLQJ H WHP H RSSRVMMV RI G QDP IFV DQG LQMLSUHMDMRQ

\$57 0 , . 6LQJ P HBGHIV Z LMK FRQILGHQFH LQ DQWJH JURXS

\$57 0 , .) RQZ FXHV RI VH FRQGXFMUVR EHJLQ DQG I RUD FXWRI

\$57 0 , . 3ODA D VMDG EHDW

\$57 0 , . 5HSQFDMM VKRUNUKI WKP LF DQG P HBGF SDMMUQV

\$57 0 , . 3ODA D VMDG EHDW LQ DJURXS Z KLOI RMKHUWXGHQW VLQJ D VRQJ

\$1 \$ / <=(

6VWDQGDUG \$OOWXGHQWZ LOODQDO] H GHVFLUEH DQG HYDQDXWVZ RUNV RI DUV

\$57 0 , , . , GHQWV HFKR VRQJV DQG UFRJQJH VH VDP H DQG GLIIHUHQWVWLRQV RI VH P XMF Z KHQ SUHMHQMG DXUDQ

\$57 0 , , . 8 VH LQYHQMG RUWWDQGDUG QRWDMRQ VR WDQFLUEH LQFUHDMQJO GLIIFXONUKI WKP V DQG P HBGHIV

\$57 0 , , . , GHQWV H VFLUEH VH P XMF SHURUP HG DQG SUHMHQMG LQ NLQGHJU DUMQ E P RYIQLQJ GLDZLQJ RUWURXJK RMKHU
DSSURSUDM UHVSQHM

\$57 0 , , . , QWRGXFH P XMF YRFDEXOU HP SKDM]LQJ RSSRVMMV LH IDMDQG VBVZ BXG DQG VRIW

\$57 0 , , . &DMJRUJH VH WHP EUH RI QRQ SLVHKG SHUFXWLRQ LQWKP HQW , GHQWV P DQI IHP DQI DQG FKLOUHQV
YRIFH/

\$57 0 , , . ' HYLVH WXGHQWFUHDWV FUJWUD I RURENIFWVH HYDQDXWVZ RI SHURUP DQFHV DQG FRP SRVWLRQV

\$57 0 , 6LQJ DQG SODA Z LMK H SUHMRQ DQG WFKQLFDODFXUDP D GLYHUH UHSUHURUH RI YRFDODQG LQWXP HQMO
DMUDXUH Z LMK DQG Z LMKRXNQRVWIRQ LQFOXGLQJ VHFWRQV SHURUP HGURP P HP RU

\$57 0 , 6LQJ DQ RWIQQDVR

\$57 0 , 6LQJ DQG SODA DFFXUDM D VD VRQW DQG LQ ERM VP DODQG OJH HQHP EOV Z LMK DSSURSUDM WFKQLTXH
DQG EUHDW FRQWRO

\$1 \$ / <=(

6VIDQGDUG \$ QDO] H GHMFUEH DQG HYDOXDW Z RUNV RI DUW

\$57 0 ,,, , GHQMA DQG GHMFUEH VSHFLLF P XMFDOHDP HQW DQG HYHQW LQ DJLYHQ DXUDCH DP SODI XVLQJ DSSURSUDM
WMP LQRQJ\

\$57 0 ,,, \$ QDO] H VWH XHV RI P XMFDOHDP HQW LQ DXUDCH DP SODI URP GLYHUH JHQHV DQG FXOXUHV

\$57 0 ,,, ' HP RQWUDM NQRZ OGIJH RI VWH EDVF SUQFISONV RI P HMU UK VWP VRQDOW LQMUJDO FKRUJV DQG
KDUP RQF SURUHWLRQV VKURXJK DQDOVW

\$1 \$ / <=(,1 &2 1 7(; 7

6VIDQGDUG 8 QGHUW DQG DQDO] H DQG GHMFUEH VWH DUW LQ VWHLUKLWRLUFDO VRFLDO DQG FXOXUDOFRQW W

\$57 0 ,9 ' HVFUEH GLWQJ XVKLQJ FKDUDFWULWV RI UHSUHMHQWVH P XMFJHQHV DQG VVQV URP D YDUHW RI
FXOXUHV

/ HDUQLQJ \$ FVWYLVH VXP P DU GHMFUJMRQ RI KRZ \ RX Z LORUFKHMDM LQMLKFLRQDCEHV SUDFWLFH GXUQJ WKLV
OMWRQ VR HQXUH WKGHQWP DMNU LH \ LIHUFQNDMG, QMLKFLRQ O DYLQR O DGHQDQH+ XQMUHM

/ HDUQLQJ \$ FVWYLVH LQFOXGH ODUQLQJ E URM WDFKHUDQG WKGHQWFDTROLQJ P XMF DQG P RYHP HQUDFWYLVH YLXDO

6WMS E\ VMS
0 RGHQJ DQG GHP RQMDMRQ
3HURUP DQFH IHHGEDFN
' UKODQG SUDFWLH
3HHUVR SHHUVDOI WKURXJK
3HURGLF UHMHZ
3URJUHW P RQJWUQJ

/ HWRQ & ORVXUH

5HFDS HOP HQW ODLQHG ([LWWFHV LQGLYLGXDO DWHP HQW

5 HI OFWIRQ

'36&' / HVVRQ 3ODQ

7HDFKHU1 DP H P DUNWD0 RRUH
* UDGHV | WK
8 QLW \$1UR %WD] LQDQO XMF DQG & XOUH/
7LVPH P LQJ LVIQ 3RUWJXHMH
6XENHFW&OWW HQUHDOO XMF O XMF \$SSUHFLDMRQ
' DWH V P FW WK WK
3DFH | PLQ

%ORRP\TV 7D[RQRPI	\$OLJQPHQW WR '36&' & XUULF
(YDOXDWL RQ 6\QWKHV LV \$QDO\VLV \$SSC	8WD] HP XMFDOHOP HQW UK WP PHBG KDUPRQ WP EUH DQGIUP VRFRP SDUHDQG

FRQNDWP XVFURP YDURXV KLVRUFDOSHURGV/
DQG FXOMUHV

6 W D Q G D U G V D Q G 2 E M H F W L Y H V

/ LWWKH WWDQGDUG V LQ NG IUIHQQDQDQJ XDJH DQG ZLWK VKH GHMUISRUH J| FWXGHQWZ LODCG DQG VXEWFVWUDFWLRQV ZLWK
XQDNH GHGRP LQDMRUV | 1) \$ |

0 L F K L J D Q 6 W D W H 0 X V L F 6 W D Q G D U G V

. , 1' (5 * \$57(1

3(5)250

6VWDQGDUG \$SSO VNLOV DQG NQRZ OHGJ H VR SHU RUP LQ VKH DUW

\$57 0 , . ' HP RQWUDM XVHV RI VKH YREH SURSHULQWKP HQMDOMFKQJXH DQG WMDG EHDW

\$57 0 , . 6LQJ DQG SODA P XVFURP D YDUHW RI VWOR DQG FXOMUHV

\$57 0 , . ^7h0D P



, Q V W U X F W L R Q D O / H D U Q L Q J 3 O D Q

/ HDUQLQJ \$ FWYLVWHV | %UH VXP P DU GHMFUJWLRQ RI KRZ \ RX ZLORUFKHMUDM LQMKFWRQDQEHV\ SUDFWLFHV GXUHQJ VKLV
@MRQVR HQXUH WKGHQWP DWWHU LH | UHJHQMDMG, QMKFWRQ O DJ DQR O DGHDQH+XQMUHM

/ HDUQLQJ \$ FWYLVWHV LQFOXGH @DUQLQJ E URW WDFKHUDQG WKGHQWFDTIRQQLQJ P XMF DQG P RYHP HQADFVYVWHV YLXDO
LQSXWRQ SURWFLWU UHFRUGLQJV SD\ HG RQ FG DQG GHP RQMDMG E WDFKHU

3URFHGXUH p

/ HVRQ & RVXUH

5HFDS HDP HQW ODLQHG ([LWFNHWLQGLGKDODWHWP HQW

5 HI OFWIRQ

'36 & ' / HVVRQ 3ODQ

7HDFKHU1 DP H DUNWD0 RRUH

* LDGHV | MK

8 QLW \$1UR %UD] LDDQ 0 XMF DQG & XOUUH/

7LVQI & RQJ R GH 2 XUR

6 XENHFW&OWW † HQHJDQ) XMF 0 XMF \$SSUHFDWRQ

' DMM V PFW MM MM
3DFH | PIQ

%ORRP\ V 7D[RQRPI	\$OLJQPHQW WR '36&' &XUULF
(YDOXDWRQ 6\QWKHVLV \$QDO\VLV \$SSC	8WHP XVFDOHDP HQVW KWP PHBG KDUPRQ WP EUH DQGIRUP VR FRP SDUHDQG FRQNDWP XVFURP YDURXVKLVRUUDOSHURGV DQGFXOMUHV

6WDQGDUGV DQG 2EMHFWLHYHV /LWWKHWDQDUGV LQNGIULHQDOO OQJXDJHDQGZLWVHGHMUISRUHJ FVGHQWZLODGGPQDQHHLQ Q

6VIDQGDUG 8 QGHUWIDQG DQDQ] H DQG GHMFUEH VKH DUW LQ VKHLUKLWRUFDO VRFLDO DQG FXOXUDCFRQM[W

\$57 0 , 9 . ' HMFUEH KRZ HOP HQV RI P XMF DUH XMHG LQ H DP SOWIURP ZRUQ FXOXUV XVLQJ P XMF SHURUP HG DQG SUHMHQMG LQ NQGHJ DUWQ

* 5 \$' (

3(5)250

6VIDQGDUG \$ SSODDNLQYQGG NQRZDQJ EOBGSXU RUP LQ VKH IDQORVRWUH D V

\$57 0 , 6LQJ DQG SDA Z LMK H SUHMRQ DQG WFKQLFDODFFXUDP D GLYHUH UHSUMLUH RI YRFDDQG LQWXP HQMO OMUDXUH Z LMK DQG Z LMKRXNQRWIRQ LOFOGLQJ VHDFWRQV SHURUP HG IURP P HP RU

\$57 0 , 6LQJ DQG RVWDQMR

\$57 0 , 6LQJ DQG SDA DFFXUDM D V D VRQDW DQG LQ ERM VP DODQG OJH HQHP EOM Z LMK DSSURSIDM WFKQLTXH DQG EYQ@D °

6XP P DMYH) RUP DMYH \$ WHWP HQW 3HU RUP DQFH 7DVN V 2WKHU(YLGHQFH| LH BUH DWHP HQW 8QW
7HWV 4XJHV (WD V ([WLENHW DQG &) 8V

3UH DWHP HQW (QM WFNHWDWHM\QJ SURNQRZ OIGJH RI JHRJUDSKLF OFDMRQ RI %UD LODQG VH FXOMUH RI
IW SHRSOI
) RUP DMYH DWHP HQW |) RUP DMYH DWHP HQW RFFXUMURXJKRXWMH OMURQ XVLQJ D YDUHW RI P HMRCW

'36&' / HVVRQ 3ODQ

7HDFKHU1 DP H P DUNWDO RRUH
* UDGHV | VK
8 QLW \$IUR %UD] LDDQ O XMF DQG &XOUH/
7VQH | XOEH
6 XENHFW&OWW † HQHUDO XMFO XMFS\$SSUHFLDWRQ
' DWH V PFW QG VK
3DFH | PIQ

%ORRP\ V 7D[RQRPV	\$OLJQPHQW WR '36&' &XUULF

\$57 0 ,,, . , QMURGXFH P XMF YRFDEXOU HP SKDM] IJQ RSSRVMMV LH IDWDQG VBRZ BXG DQG VRIW

\$57 0 ,,, . &DMUJRUJH VKH WP EUH RI QRQ SLVKG SHUFXWLRQ LQWKP HQW , GHQMA P DQI IHP DQI DQG FKLOUHQV YRIFHV/

\$57 0 ,,, . ' HYLH VVGHQWUHDWG FULMUD I RUREMFWH HYDODMRQ RI SHURUP DQFH V DQG FRP SRVWLRQ/

\$57 0 ,,, . , GHQMA DQG VASSRUASHU RQDOUHDFWLRQ/ VR D P XMFDOHDFWLRQ

\$1 \$ / <= (, 1 & 2 1 7 (; 7

6V\QGDUG 8 QGHUW\QG DQDO] H DQG GHMFUEH VKH DUW LQ VVHLUKLW\UFDO VRFLDO DQG FXO\UDOFRQW[W

\$57 0 , 9 . ' HMUEH KRZ KOP HQW RI P XMF DUH XMHG LQ H DP S\W\URP Z RUQ FXO\UHV XWQJ P XMF SHURUP HG DQG SUH\QMG LQ NQHJU DJMQ

* 5 \$' (

3(5) 2 5 0

6V\QGDUG \$ SSO VNLOV DQG NQRZ OIGJ H V\IR SHU RUP LQ VVH DUW

\$57 0 , 6LQJ DQG S\A Z LK H SUHMRQ DQG WFKQLDFFXUD\ D GLYHUH UHSUJLJH RI YRFDDQG LQWKP HQW\O OMDMXUH Z LK DQG Z LKRXNQRW\MRQ LOFOGLQJ VDFWLRQ/ SHURUP HG\URP P HP RU

\$57 0 , 6LQJ DQG RV\QDMR

\$57 0 , 6LQJ DQG S\A DFFXUD\ D V D VRQ\W DQG LQ ERM VP DODQG OJH HQHP E\W Z LK DSSURSUDM WFKQLTXH DQG EUHDM\ FRQWRO

\$1 \$ / <= (

6V\QGDUG \$ QDO] H GHMFUEH DQG HYDODW\ Z RUNV RI DUW

\$57 0 , , , GHQMA DQG GHMFUEH VSHU\W P XMFDOH\DP HQW DQG HYHQW LQ D JLYHQ DXUDCH DP S\W\URP XWQJ DSSURSUDM W\W\Q\W LQ\W\J\W\

\$57 0 , , , \$QDO] H VVH XHV RI P XMFDOH\DP HQW LQ DXUDCH DP S\W\URP GLYHUH JHQHV DQG FXO\UHV

\$57 0 , , , ' HP RQWUDM NQRZ OIGJ H RI VVH EDMF SUQFISON RI P HMU UK\WP VRQDOW LQWUD\ FKRUQV DQG KDUP RQFL SURUHM\LRQV VVURXJK DQDOV\

\$1 \$ / <= (, 1 & 2 1 7 (; 7

6V\QGDUG 8 QGHUW\QG DQDO] H DQG GHMFUEH VVH DUW LQ VVHLUKLW\UFDO VRFLDO DQG FXO\UDOFRQW[W

\$57 0 , 9 , ' HMUEH GLW\W\YDHW\B\W\ B\W XU\DO DSU P H\W

\$ V V H V V P H Q W

6 X P P D M Y H) R U

U

6WDMUJLF 7HDFKHU / HG 6P DQ* URXSV | ([SODQWH VFDI RQHG LQWKFWRQ IRUHDFK JURXS

([VHQGHG / HDUQLQJ

6WXGHQW ZLQH SORUH DQG GHMUEH WH WP EUH RI LQWKP HQW LQ RQH RI WHUIDYRUUM VRQJ V

/ HVRQ \$ FFRP P RGDMURQV | 6SHFLDOQHGV DQG JLIWNG

6SHFLDOQHGV DGGUHWG DV QHHGHG

: KDWZ LOA RX GR LI WXGHQW GR QRWKQGHUW DQG" | / LWLQMLUHQWRQ WDMUJLH/

, ZLOOMDFK XVLQJ D YDUHW RI P HMRGV LQ RUGHUVR P D[IP]H ODUQLQJ SRMQMDAQ HDFK FKLG , QWFKFWRQDOP DMK

6FDI RQCLQJ

6VMS E\ VMS

0 RGHOOJ DQG GHP RQWMDMRQ

3HURUP DQFH IHHGEDFN

' UKODQG SUDFWFH

3HUVR SHUVDON WRURXJK

3HURGLF UMLHZ

3URJUHW P RQWMLUQJ

/ HVRQ & ORVXUH

5HFDS HOP HQW ODUCHG ([LWLFNHW\LQGLYLGXDDWHP HQW

5 HI OIFWRQ

'36&' / HVVRQ 3ODQ

7HDFKHU1 DP H P DUNW 0 RRUH
* UDGHV | WK
8 QLW \$IUR %UD] LQDQ 0 XMF DQG &XOMUH/
7LVQH 6DP ED 5HJJDH RI ' LGD
6XENHFW&OWW † HQHUDO 0 XMF \$SSUHFDWLRQ
' DWH V PFW WK 1RY QG
3DFH | PLQ

%ORRP\IV 7D[RQRPI	\$OLJQPHQW WR '36&' &XUULF
(YDOXDWL RQ 6\QWKHVLV \$QDO\VLV \$SSC	8WHP XLFDOHDPHQW UK WP PHOG KDUPRQ WP EUH DQGIURP VR FRP SDUHDQG FRQNDWP XIFIURP YDURXVKLXWUDOSHURGV DQGFXOMUH/

\$57 0 ,,, . ' HMUEH WKH P X

SDH-QMG LQH

\$ V V H V V P H Q W

6XP P DMYH) RUP DMYH \$ WHWP HQW 3HU RUP DQFH 7DVN V 2WKHU(YLGHQFH| LH BUH DWHWP HQW 8QW
7HW 4X]HV (WD V ([WLFNHW DQG &) 8V

3UH DWHWP HQW (QM WFNHDWHWQJ SIRUNQRZHGJH RI JHRJUDSKLF OFDMRQ RI %UDILODQG WKH FXOMUH RI
IWSHRSOI

) RUP DMYH DWHWP HQW |) RUP DMYQ

6W\DMU\LF 7HDFKHU / HG 6P DQ* URXSV |([SDQ

'36&' / H V V R Q 3 O D Q

7HDFKHU1 DP H P DUNVDO RRUH

6VIDQGDUG \$ OOMXGHQW Z LOODQDO] H GHVUEH DQG HYDQDXDMZ RUNV RI DUW
\$57 0 ,,, . , GHQW HFKR VRQJ V DQG UHFRJ QJ H VH VDP H DQG GLI HUHQW H FWRQV RI VH P XMF Z KHQ SUHMHQMG DXUDQ
\$57 B ,,, . 8 IDQDQG RUWIDQGDUG QRWIRQ VR WDQWUEH LQFUHDWQJ Q GLI I FXONWK WKP V DQG P HBGHLV
\$57 052;UTM, Y . HNQDQDQH P XMF SHURUP HG DQG SUHMHQMG LQ NQCHJ DUMQ 11000

' HP RQWUDM KRZ VR EX] OSV RQ VWH P RXWMSLHFH + DYH WXGHQW P DMMUEX] IJQ RQ VWH P RXWMSLHFH EH RUH P RYIQU
RQ VR VWH QH VVMS
) RUP DWYH DW-HWP HQW³+RZ GRHV D KRUQ P DNH VRXQG' / ISV EX] VR FUHDM YLEUDARQ LQ VWH P RXWMSLHFH 6RXQG
Z DYHV DUH VHQLWURXJK VWH IQMWKP HQWDQG DP SODLG VVURXJK VWH FRQFDCHQG
' HP RQWUDM KRZ VR DWDFK VWH P RXWMSLHFH VR VWH KRUQ DQG SODA P XMF
3HURUP D VRQJ IURP VWH O HUJ 7XED &

