

&+(0

7KRPDV .XKQ

&KHP &51
,QIRUPDWLRQ 6WRHJD JH0BQ6FXLDHQW DQG 3DWKZ
)DOO

,QVWUXFWR0KRPDV .XKQ 0XULH ' WENXKQ#DODVN

2IILFH +RXUVRQGD\ DQG)ULGD\HRO-CPZLYHJUOVHFXLDHQW VWRU H
FRQWDFW W KHSLKRVWU R BWHRUDLO DW DQ\ WLPH

/HFWXUH 0RQGD\ :HGQH\VG D\)ULGD 5(,&
WR LQFQRW LQJ ILQDO

7H[WERRN Principals of Biochemistry WK(GLWLRQ
'DYL G / 1HOVRQ DQG 0LFKDHO 0 &R[
: +)UHHPDQ DQG &RPSDQ\ 1<
,6%1 ;

QQ QINLQQ' PDKHUTP DQGF XDRWHLQV LQFOXGLQJ
P '1\$ VWULXFOV XHSDLOG 5WHSRPERQDWLSRQH S0I0FDW
/UDQVFUL\$MLRQ7DQG VSURVHROV LQQG* BQRWHLQHV
FRQVMI0HSRUDQJ E W H D F K G L H X W H G Z Z K H Q D S S U R S U L D W H

GQHQW0VERHQGQMFVXWUHQ ZLRQK DUMVRQDOH
DSWDV X00H0E000LW W UGLEVFXVVLQR
DQGRPOVH0UNH0 DQRG H[SODLQ VHFWRQRV DQG RU
KHVH G0SR0W0DQ0W0R0W0H0D0V0D0W0H0V0FLHQFH NQRZOHGJH
H WKH DSSOLFDWLRQ RI VFLHQFH

RGE00 BURKHWEH XFXQGHU OXLOF WLRQ UHJXODWLRQ
\$ DQG 3URWHLQV
YHGE XWR DUVHQBWXLRQ VXRQF\$MLRQHLQ '1\$
DMLLRQ DRQ G0MFSK0H[UPSURRHPRVHV DQG SURWHLQ
YHGR SQFWH0R0SR0Q0W0D0RSIUCRHHVVHV DQG RU

HUPX000WHLQ W0S0SG0D0W0DH0SR0H0R0HH0LW WKH
URXQW SD\$MHD GLVFXVVLQR

/H DUQLQJ 2XWFRPHV

8QGHUVWDQG VW ODFWLRIQHVIKLSF V H RQH UPHO Q UQU QPWHFWRPRLR C
\$VSHFWV RI V\QHUWLVBQGRURSHLSBAREYEMURPHROHYFXOOWWG\QD
*HQH UHJXODWLROJ P QFWHRUPRODFXORIMSKHQRIWSSHVVLRR
%LRPHGLFDO GLVHVDH UHODWHG DVSHFWV RI WRS LFV
&ULWLFDO UHDBVQDURAKSOLADHWDWXUH
8QGHUVWDQGLQJ RI SULQFLSDO PHWKRGV DQG WHFKQLTXH

,QVWUXFWLRQDO OHWKRGV

7KH WHDFKLQJ PHWKRGV HPSOR\H ZHUSMLQW GRXWXW HZV OQG

&RXUVH 3ROLFLHV

Attendance: 5HJXODU VWXGH QSW EDWHGH ~~WRORQVFXVNDH~~ WLLYR WLVH DQ
GLVFXVVLQRQV

Exams)RXU H[DPV ZLOO EHI ~~DEPHDUH~~ ~~SDZKRXV~~ ~~KADKWL~~ ~~SHRZUHV~~
RI WKH FRXUVH ~~KD~~ ~~F~~ ~~W~~ ~~D~~ ~~W~~ ~~L~~ ~~M~~ ~~A~~ ~~I~~ ~~N~~ ~~E~~ ~~D~~ ~~E~~ ~~X~~ ~~A~~ ~~M~~ ~~S~~ ~~Z~~ ~~G~~ ~~D~~ ~~E~~ ~~O~~ ~~R~~ ~~I~~ ~~O~~ ~~\~~ ~~E~~ ~~H~~
DOORZHG ZLWK SUHV ~~W~~ ~~S~~ ~~X~~ ~~F~~ ~~R~~ ~~M~~ ~~D~~ ~~O~~ ~~R~~ ~~I~~ ~~O~~ ~~N~~ ~~K~~ ~~V~~ ~~R~~ ~~L~~ ~~D~~ ~~X~~ ~~P~~ ~~D~~ ~~I~~ ~~Q~~ ~~A~~ ~~H~~ ~~S~~ ~~O~~ ~~V~~ ~~D~~
VXFK DV XQH[SHFWHG LOOQHVV IDELOH ~~H~~ ~~P~~ ~~H~~ ~~Q~~ ~~W~~ ~~V~~ ~~Q~~ ~~F~~ ~~L~~ ~~H~~

Papers: 6WXGHQWV ZLOO SUHFS ~~L~~ ~~D~~ ~~W~~ ~~L~~ ~~R~~ ~~I~~ ~~O~~ ~~N~~ ~~D~~ ~~E~~ ~~B~~ ~~S~~ ~~H~~ ~~L~~ ~~V~~ ~~S~~ ~~M~~ ~~W~~ ~~N~~ ~~R~~ ~~Q~~ ~~D~~ ~~Q~~
XQGHUVWDQGLQJ ~~R~~ ~~D~~ ~~W~~ ~~H~~ ~~R~~ ~~Q~~ ~~D~~ ~~R~~ ~~O~~ ~~V~~ ~~K~~ ~~\~~ ~~S~~ ~~H~~ ~~F~~ ~~W~~ ~~H~~ ~~G~~ ~~W~~ ~~D~~ ~~G~~ ~~D~~ ~~G~~ ~~H~~ ~~D~~ ~~I~~ ~~E~~
UHVXOWV DQG ~~F~~ ~~W~~ ~~W~~ ~~G~~ ~~F~~ ~~I~~ ~~D~~ ~~O~~ ~~V~~ ~~D~~ ~~R~~ ~~D~~ ~~O~~ ~~Z~~ ~~M~~ ~~E~~ ~~R~~ ~~U~~ ~~D~~ ~~O~~ ~~&~~ ~~S~~ ~~P~~ ~~Q~~ ~~W~~
XSRQ WR DQVZHU TXHVWLRQV

Participation: &ODVV SDUWLF LSO ~~G~~ ~~W~~ ~~I~~ ~~R~~ ~~Q~~ ~~V~~ ~~D~~ ~~V~~ ~~O~~ ~~H~~ ~~\~~ ~~S~~ ~~H~~ ~~F~~ ~~W~~ ~~H~~ ~~G~~ ~~W~~ ~~D~~ ~~R~~ ~~H~~ ~~R~~ ~~S~~ ~~W~~ ~~S~~ ~~H~~ ~~H~~ ~~V~~ ~~V~~
GLVFXVVLQRQ SUHVL ~~H~~ ~~Q~~ ~~F~~ ~~O~~ ~~D~~ ~~G~~ ~~H~~ ~~R~~ ~~C~~ ~~E~~ ~~X~~ ~~W~~ ~~D~~ ~~K~~ ~~Z~~ ~~H~~ ~~R~~ ~~W~~ ~~Q~~ ~~L~~ ~~P~~ ~~X~~ ~~M~~ ~~V~~ ~~H~~ ~~L~~ ~~F~~ ~~V~~
GXULQJ OHFWXUHLV ~~D~~ ~~D~~ ~~W~~ ~~N~~ ~~R~~ ~~Q~~ ~~V~~ ~~I~~ ~~R~~ ~~U~~ ~~D~~ ~~I~~ ~~S~~ ~~R~~ ~~O~~ ~~N~~ ~~F~~ ~~U~~ ~~G~~ ~~E~~ ~~X~~ ~~W~~ ~~X~~ ~~Q~~ ~~V~~ ~~L~~ ~~R~~ ~~R~~ ~~V~~

(WKLFDQ &RQV ~~L~~ ~~K~~ ~~H~~ ~~\~~ ~~D~~ ~~M~~ ~~P~~ ~~L~~ ~~R~~ ~~Q~~ ~~W~~ ~~\~~ ~~3~~ ~~'~~ ~~H~~ ~~S~~ ~~R~~ ~~Q~~ ~~W~~ ~~R~~ ~~H~~ ~~I~~ ~~D~~ ~~W~~ ~~L~~ ~~R~~ ~~O~~ ~~A~~ ~~N~~ ~~E~~ ~~\~~ ~~D~~ ~~V~~ ~~I~~ ~~R~~ ~~O~~ ~~O~~ ~~R~~
student caught cheating will be assigned a course grade of F. The student's academic advisor will be notified of this failing grade and the student will not be allowed to drop the course

3ODJLDULVP 3ROLF\

3ODJLDULVP LV GRIL ~~3~~ ~~R~~ ~~H~~ ~~V~~ ~~K~~ ~~O~~ ~~N~~ ~~F~~ ~~W~~ ~~\~~ ~~D~~ ~~E~~ ~~X~~ ~~H~~ ~~W~~ ~~S~~ ~~R~~ ~~X~~ ~~W~~ ~~S~~ ~~U~~ ~~R~~ ~~S~~ ~~H~~ ~~U~~ ~~U~~ ~~H~~ ~~I~~ ~~H~~ ~~U~~ ~~H~~
DXW ~~I~~ ~~n~~ ~~t~~ ~~e~~ ~~l~~ ~~l~~ ~~e~~ ~~c~~ ~~t~~ ~~u~~ ~~a~~ ~~l~~ ~~p~~ ~~r~~ ~~o~~ ~~p~~ ~~e~~ ~~r~~ ~~t~~ ~~y~~ ~~i~~ ~~n~~ ~~c~~ ~~l~~ ~~u~~ ~~d~~ ~~e~~ ~~s~~ ~~a~~ ~~l~~ ~~l~~ ~~e~~ ~~c~~ ~~t~~ ~~r~~ ~~o~~ ~~n~~ ~~i~~ ~~m~~ ~~e~~ ~~d~~ ~~i~~ ~~a~~ ~~\~~ ~~6~~ ~~W~~ ~~X~~ ~~G~~ ~~H~~ ~~Q~~ ~~W~~ ~~D~~ ~~I~~ ~~E~~
H[SHFWHG WR ~~F~~ ~~H~~ ~~G~~ ~~H~~ ~~L~~ ~~Q~~ ~~O~~ ~~R~~ ~~O~~ ~~V~~ ~~G~~ ~~X~~ ~~C~~ ~~F~~ ~~L~~ ~~Z~~ ~~Q~~ ~~W~~ ~~V~~ ~~H~~ ~~D~~ ~~Q~~ ~~S~~ ~~V~~ ~~H~~ ~~R~~ ~~V~~ ~~H~~ ~~S~~ ~~O~~ ~~V~~ ~~D~~ ~~D~~ ~~M~~ ~~D~~ ~~U~~ ~~L~~ ~~V~~ ~~H~~
VHULRXVO\ ZLWK ~~S~~ ~~D~~ ~~J~~ ~~U~~ ~~D~~ ~~L~~ ~~F~~ ~~X~~ ~~O~~ ~~D~~ ~~B~~ ~~U~~ ~~D~~ ~~W~~ ~~K~~ ~~H~~ ~~V~~ ~~G~~ ~~H~~ ~~R~~ ~~Q~~ ~~D~~ ~~V~~ ~~E~~ ~~H~~ ~~H~~ ~~U~~ ~~H~~ ~~U~~ ~~H~~ ~~G~~ ~~W~~ ~~F~~ ~~E~~
&KDLU RU 'H ~~I~~ ~~D~~ ~~D~~ ~~Q~~ ~~O~~ ~~R~~ ~~L~~ ~~Q~~ ~~F~~ ~~O~~ ~~F~~ ~~R~~ ~~Q~~ ~~W~~ ~~L~~ ~~G~~ ~~H~~ ~~U~~ ~~H~~ ~~G~~

6XSSRUW 6HUYLEFHV

6XSSRUW VHUYLEF ~~G~~ ~~V~~ ~~E~~ ~~Z~~ ~~M~~ ~~K~~ ~~H~~ ~~B~~ ~~I~~ ~~S~~ ~~Y~~ ~~H~~ ~~R~~ ~~U~~ ~~L~~ ~~E~~ ~~G~~ ~~N~~ ~~D~~ ~~U~~ ~~R~~ ~~I~~ ~~V~~ ~~S~~ ~~O~~ ~~V~~ ~~M~~ ~~R~~ ~~D~~ ~~R~~ ~~Q~~ ~~O~~ ~~L~~ ~~Q~~ ~~H~~ ~~U~~ ~~I~~
LQVWUXFWRU ~~S~~ ~~O~~ ~~G~~ ~~H~~ ~~W~~ ~~R~~ ~~O~~ ~~D~~ ~~O~~ ~~D~~ ~~E~~ ~~\~~ ~~6~~ ~~X~~ ~~S~~ ~~S~~ ~~R~~ ~~U~~ ~~W~~ ~~6~~ ~~H~~ ~~U~~ ~~Y~~ ~~L~~ ~~F~~ ~~H~~ ~~V~~
[KWWS](#) [ZZZ](#) [XDD](#) ~~W~~ ~~G~~ ~~S~~ ~~)~~ ~~V~~ ~~V~~ ~~V~~ ~~S~~

'LVDELOLWLHV 6HUYLEFHV

6WXGHQWV ZLWK ~~Q~~ ~~D~~ ~~S~~ ~~J~~ ~~G~~ ~~\~~ ~~L~~ ~~F~~ ~~D~~ ~~E~~ ~~L~~ ~~G~~ ~~U~~ ~~W~~ ~~O~~ ~~G~~ ~~H~~ ~~D~~ ~~O~~ ~~W~~ ~~L~~ ~~I~~ ~~H~~ ~~T~~ ~~X~~ ~~K~~ ~~H~~ ~~P~~ ~~H~~ ~~G~~ ~~H~~ ~~O~~ ~~R~~ ~~H~~ ~~V~~ ~~W~~ ~~R~~
WKH 2IILFH RI 'L ~~W~~ ~~I~~ ~~D~~ ~~F~~ ~~E~~ ~~L~~ ~~V~~ ~~L~~ ~~W~~ ~~L~~ ~~H~~ ~~K~~ ~~L~~ ~~\~~ ~~W~~ ~~H~~ ~~X~~ ~~D~~ ~~I~~ ~~H~~ ~~U~~ ~~G~~ ~~L~~ ~~V~~ ~~D~~ ~~E~~ ~~L~~ ~~O~~ ~~L~~ ~~W~~ ~~\~~ ~~V~~ ~~H~~ ~~U~~ ~~Y~~ ~~L~~ ~~F~~ ~~H~~ ~~V~~ ~~#~~ ~~I~~
[KWWS](#) [ZZZ](#) [XDI](#) ~~H~~ ~~O~~ ~~R~~ ~~F~~ ~~O~~ ~~W~~ ~~H~~ ~~D~~ ~~E~~ ~~L~~ ~~O~~ ~~L~~ ~~W~~ ~~K~~ ~~O~~ ~~W~~ ~~H~~ ~~Q~~ ~~Q~~ ~~G~~ ~~\~~ ~~R~~ ~~R~~ ~~Q~~ ~~M~~ ~~F~~ ~~O~~ ~~L~~ ~~Q~~ ~~H~~ ~~L~~ ~~Q~~ ~~R~~
VSHFLDO DFFRPPRGDW ~~I~~ ~~P~~ ~~Q~~ ~~W~~ ~~S~~ ~~T~~ ~~R~~ ~~I~~ ~~V~~ ~~G~~ ~~R~~ ~~X~~ ~~G~~ ~~R~~ ~~K~~ ~~F~~ ~~X~~ ~~V~~ ~~H~~ ~~L~~ ~~O~~ ~~D~~ ~~E~~ ~~V~~ ~~O~~ ~~L~~ ~~O~~ ~~W~~ ~~\~~
6HUYLEFHV ZLOO ~~W~~ ~~K~~ ~~F~~ ~~I~~ ~~Q~~ ~~Q~~ ~~R~~ ~~D~~ ~~U~~ ~~L~~ ~~D~~ ~~E~~ ~~H~~ ~~H~~ ~~P~~ ~~H~~ ~~Q~~ ~~S~~ ~~W~~ ~~I~~ ~~Z~~ ~~R~~ ~~U~~ ~~N~~ ~~D~~ ~~Q~~ ~~Q~~ ~~K~~ ~~R~~ ~~P~~ ~~H~~ ~~Z~~ ~~R~~ ~~U~~
DQG GRLQJ ODE ZRUN

6SHFLDO 'DWHV SHUWLQHQQW WR WKH FRXUVH

6HH DFDGHPLF FDO [KWWS](#) [IRU](#) [W](#) [G](#) [H](#) [O](#) [R](#) [D](#) [L](#) [O](#) [M](#) [I](#) [N](#) [X](#) [F](#) [D](#) [O](#) [H](#) [Q](#) [G](#) [D](#) [U](#)