

6 â *,È2 'è& -2 7²2 1\$0 î1+ Ä 7+, .,Æ0 75\$ *,ò\$ +Đ& .Î ,
75lâ1* 7+37 75ô& 1,1+ % 0{Q 7RiQ .KÕL 1kQJ FDR

Thời gian làm bài: 90 phút;
(50 câu trắc nghiệm)

0 m ÿ Å WKL

+Ñ WrQ WKt VLQK

6Õ EiR GDQK

&kX +jP VÕ QjRNMQjFy FõF WUİ

\$ y x x x

% y x x

& y x $\frac{-}{x}$

' y x x

&kX 7uP JLi WUİ QKÝC QKjP WõF end QJKİFK ELÃQ WURQ

\$ m

% m

& m

' m

&kX &KR Kjp axÕ bx cx d Fy ÿ× WKİ

QKm KuQK YÁy Å rQjR GẽQK ÿk\ ÿ~QJ"

\$ a b c !d ! %a b c d !

& a b c d ! ' a b c !d

&kX *ÑM,N Oj JLDR ÿLÇP FëD ÿmáQJ

WK·QJx Yj ÿmáQJyFRQJ.KL ÿy WXQJ ÿÝ WUXQJ

ÿLÇPFëD ÿR¥QWVWU·QJ

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%

&

' -

&kX &KR KuQK OABSD \$ K m DQF¥QK7tQK NKRSQJ FiFK JLóD KDL ÿ
CD

\$ a

% $a\sqrt{}$

& $a\sqrt{}$

' $a\sqrt{}$

&kX 7uP Ed XWURQJ FiF PËQK ÿÅ VDX YÅ *7/1xYjx*711>FëD Kjp

\$ +jP VÕ Fy *7/1 Yj *711 %0LQ \

&0D[\

' +jP VÕ ÿ¥W *7/1 NKL [

&kX &KR KjpF(x) Õy ESQJ ELÃQ WKLrQ QKm KuQK YÁy 7fuxP VÕ ÿL

\$

%

&

'

&kX &KR KuQK KÝABCFKBCQKfyAB caAD $a\sqrt{}$ 7tQK NKRSQJ FiFK JLóD
WK·QJYAc

Å WKL

&kX 7ÙQJ VÕ F¥QK FëD'YjDyÖLËQËQÅXQJ

\$ % & ' ,

&kX .K·QJ yİQK QjR VDX yk\ Oj y~QJ

\$ +jP VyÕ x x NK{QJ Fy FõF WUİ

% +jP VyÕ x x Fy PÝW yLrP FõF y¥L

& +jP VyÕ x $\frac{\quad}{x}$ Fy KDL FõF WUİ

' +jP VyÕ $\frac{x}{x}$ Fy PÝW FõF WUİ

&kX *Li nWQjP yx WKÿ KxP xÕx m F³W WUéF WXQJ W¥L \$ Fy WX

\$ % & ' ,

&kX &KR ymáQD FRQJx Yj yAÇP 1ÃX A XNDÿ ymçF WLÃS W

C Wnk uSK§L WKR§ PmQ yLÃX NLËQ

\$ m m%— !%m! & m — ' —P

&kX 7URQJ FiF KjP VÕ VDX yx WKİ KjP VÕ QjR Fy WLËP F±Q

\$ y x x %y $\frac{x}{x}$ & y x x ' y $\frac{x}{x}$

&kX 7tQK WK F VDtFKKÖL O QJ WBCABCDPyWicFw ÅX Fiä F¥QK EµC

\$ v $\frac{a}{\sqrt{\quad}}$ %v $\frac{a}{\sqrt{\quad}}$ & v $\frac{a}{\sqrt{\quad}}$ ' v $\frac{a}{\sqrt{\quad}}$

&kX 7uP P yÇ SKmkQJm√UuQFy QJKLËP

\$ md $\sqrt{d}$ % md d & xd $\sqrt{\quad}$, m $\sqrt{d}$

&kX &KR +jP VÕ [iF yİQK Yj OLRQ W^a F W⁰UrQ yR¥Q

Fy yx WKİ FëDf KjeKvõKuQK YÁy +fóLÿKjP VÕ

JLi WUİ QKÓ QK-^aW W⁰UÿQQPR¥QmßL yk\ "

\$ x %x & x ' x

&kX &KR KxP $\frac{x}{x}$ VÕ & máQJy=W F³QJ & W¥L KDL

\$ % máQJy=xvñKFQW & W¥L KDL yLÇP & ' VDR FKR EŞQK&y Å y~QJ

\$ NK{QJ W×Q W¥L JLi WUİ%PP Oj VÕ QJX\ rQ WÕ

& P Oj VÕ Wõ QKlrQ FKLD'KÃWjFKÖ Wõ QKlrQ FKLD KÃW FKR

&kX &y EDR QKlrX NKÖL yD GLËQ yÅX

\$ % & ' Y{ VÕ

&kX &KR KuQSKABCFySA A ABC WDPABLi F X{QJ Fk QCW¥L YSA a

*ÑM Oj WUXQJ SBLÇP FFKÇ WSAFMCNKÖL FKYS

\$ $\frac{a}{\quad}$ % $\frac{a}{\quad}$ & $\frac{a}{\quad}$, $\frac{a}{\quad}$

&kX &KR KuQK OABQABWUFABÿáQAC a AA a $\sqrt{\quad}$ YBAC *ÑM

I O«Q OmçW Oj WUXQÇ yLÇP FFKÇ WSAFMCNKÖL FKYS QKiy ÅQWF»WLAÇRK·QJ

\$ $\sqrt{a}$ % $a\sqrt{}$ & $\sqrt{a}$, $\sqrt{a}$

&kX &KR Kjp $\sqrt{x}$ Fy $\sqrt{x}$ WKİ & 3KmkQJ WUuQK WLÃS V
FëD & YBL WUéF WXQJ Oj
\$ y x % y x & y x ' y x

&kX +jP VÕ QjR WURQJ QKóQJ Kjp VÕ VDX $\sqrt{x}$ QJ ELÃQ WURQ
\$ y x x % y -x -x

& y $\frac{x}{x}$ ' y -x -x x

&kX 6Õ $\sqrt{L}$ ÇP FõF WU|x FëD Kjp $\sqrt{Q}$
\$ % & ' ,

&kX &KR Kjp $\sqrt{x}$.K·QJ $\sqrt{Q}$ QjR
\$ +jP VÕ $\sqrt{x}$ QJ ELÃQ WURQ%+jP VÕ $\sqrt{x}$ QJ ELÃQ WURQ
& +jP VÕ $\sqrt{x}$ QJ ELÃQ WURQ' +jP VÕ QJKİFK ELÃQ WURQ

&kX &KjR W K Ó $\sqrt{y}$ Pdm Qđ Ñ L 0 Yj Q O « Q O m ç W
FëD x y $\frac{x}{y}$ &KÑQ PËQK $\sqrt{y}$ Æ $\sqrt{y}$ ~QJ
\$ 0 Q % 0 Q & 0 Q ' 0 Q

&kX &KR WABCD EÄQ BC *ÑLN O«Q OmçW Oj WUXQAC $\sqrt{L}$ ÇP F
YjMN *ÑL Oj JyF JLóD KDB $\sqrt{y}$ mñQJ $\sqrt{W}$ KKQJ
\$ $\sqrt{}$ % - & $\sqrt{}$ ' $\sqrt{}$

&kX &KR KuQK K $\sqrt{ABCDEF}$ $\sqrt{Q}$ $\sqrt{W}$ $\sqrt{x}$ QJ GLËQ WtFK FëD $\sqrt{y}$ WQjW $\sqrt{F}$ áF
FK $\sqrt{ABC}$ EµQJ +ÓL WKÇ WtFK $\sqrt{Q}$ $\sqrt{W}$ $\sqrt{L}$ Q $\sqrt{y}$ ESDR QKLrX"
\$ % $\sqrt{}$ & $\sqrt{}$ ' $\sqrt{}$

&kX .KL FKLÃX FDR FëD PÝW KuQKOR«Qy Q KOnE QJJ EİFL $\sqrt{y}$ ÆXQW
O«Q WKu WKÇ WtFK FëD Qy
\$.K{QJ WKD\ $\sqrt{y}$ UQJ $\sqrt{Q}$ «Q & 7 QJ $\sqrt{Q}$ QO«Q *LSP nÿLO«Q

&kX &KR WABCD EÄQWKÇ WtFKG EQJWUÑQJ WBCD WDEKJWKÇ $\sqrt{y}$ WtFK
NKÖL $\sqrt{ABC}$ S
\$ V %V & V ' V

&kX &KR PÝW NKÖL FKyS FyKWKÇSWtGKËQWtFK $\frac{1}{3}$ $\sqrt{y}$ D«QİFFK LÃX

JLSP $\frac{1}{2}$ WKu WKÇ WtFK $\sqrt{y}$ KEİLQFKEYSROQKLrX"

\$ $\frac{V}{6}$ % $\frac{V}{18}$ & $\frac{V}{3}$ ' $\frac{V}{}$

&kX 7uP W±S KçS QKnóQJ $\sqrt{x}$ LiWKÜİKjFëD VÕ Fy $\sqrt{L}$ ÇP FõF WUİ
PÝW WDP JLiF YX{QJ

\$ $r_{\text{R}}^{\frac{1}{2}}$ $\frac{1}{3/4}$ % - $r_{\text{R}}^{\frac{1}{2}}$ $\frac{1}{3/4}$ & $r_{\text{R}}^{\frac{1}{2}}$ $\frac{1}{3/4}$ ' $r_{\text{R}}^{\frac{1}{2}}$ $\frac{1}{3/4}$

&kX ;pW SKmkQWUÖQK $\sqrt{y}$ Æ QjR VDX $\sqrt{y}$ k\ $\sqrt{y}$ ~QJ "

\$ 3KmkQJ WUuQJK OËR QY Fy PañL VÕ WKõF
% 3KmkQJ WUuQK Oa•FQ Fy QJKLËP
& 3KmkQJ WUuQJK OËR QY Fy PañL VÕ WKõF
' 3KmkQJ WUuQJK OËR QY Fy PañL VÕ WKõF

&kX &KR WDP JLiF \$%&%&j W•QF GLH QJ\$YßL Q KID X& MÑKQAF KXÍ VÕ
A.k EµQJ WÍ VÕ KDL JyF WmkQJ íQJ
B.k EµQJ WÍ VÕ KDL WUXQJ WX\ÃQ WmkQJ íQJ
C.k EµQJ WÍ VÕ KDL ŷmáQJ FDR WmkQJ íQJ
D.k EµQJ WÍ VÕ KDL WUz QltQSKWmkQJÃQJ

&kX 7uP W©W F\$ FiF JMKDP U VÕ Põ Fy Fy x W KÿKj PQWÕ WLËP F±C

\$ m ! % -m z & m z ' m z

&kX &KR SKmkQJ WUuQJKRV [VLQ [FRV [WURQJ [ŷyPP Oj W
Ç SKmkQJ WUuQK Fj Fy J LQ JW UËR WKK KçS FèD P O

\$ d P d % - dP d

& d P d ! K D \ P

&kX 6Õ QJKLËP FèD SKmkQJ WUuQJ ŷR XQ @
\$ % & '

&kX 7uP FiF JLi WUñ Fy ÇDSW K D FJW Ux QK Fy QJKLËP "
© 1

\$ m d % dm d & dm d ' dm d

&kX 7±S [iF ŷİQK FyèD XQJ VÕ

\$ D R % D R ?^S kSk • Z^{1/2}_{3/4}

& D R ?^S kSk • Z^{1/2}_{3/4}

&kX &KR Kjp MÕ Fy ŷ¥Ry KjR x NK•QJ ŷİQK QjR ŷ~QJ
\$ +jP VyÕ f x NK{QJ Fy FõF WUİ VyÕ f x Fy ŷLÇP FõF WUİ
& +jP VyÕ f x Fy ŷLÇP FõF WUİ VyÕ f x Fy ŷLÇP FõF WUİ

+ Â 7