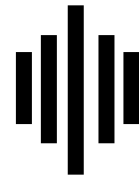




I 2dr I keku;



d{k k x



i z u c d

1/40 | k s p r b d k b 1/2  
N U k h l x < + e k / ; f e d f ' k { k k e . M y ] j k ; i g

# vkedk

jk"Vh; i kB; p; kZ dh : i j s [kk 2005 eaftu fpUrkvka dk mYy s [k fd; k x; k gS ml dsr kjr E; eai n s k ds g kb L dny , oagk; j l ds Mjh eav/; ; u djus okys fo | k f k z ka ds l a d k ea fopkj djus , oa mudh l eL; kvka dk l ek/kku djus g r q N R r h l x < + ek /; fed f ' k { k k e . My iz Ru ' khy g s r k f d ' k s k f . k d y { ; ka dh i k f l r g k s l ds , oa f ' k { k k dh x q k o R r k ea l q k k j g k s l d a

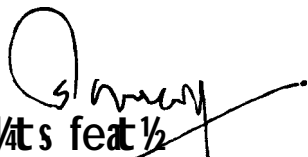
i j h { k k v k a d s l e ; fo | k f k z ka ds eu ea f p U r k , oa H k ; m R i U u g k r k g s f d i j h { k k d s h g k s c h \ i j h { k k ea f d l i d k j i z u i n s t k ; a s d d k s l k i z u i j h { k k d s f y , e g R o i w k z g k s l d r s g a b l g r q f o x r o " k k a e a e . My iz k l j r j g k g a f o " k ; o k j e k m y i z u i = d k s v c N R r h l x < + ek /; fed f ' k { k k e . My ds e k U ; r k i k l r fo | k y ; ka ea H k s t u s d s l k f k & l k f k m U g a e . My ds o s l k b v ea y k M f d ; k t k ; s k A i j h { k k d s H k ; , oa r u k o l s e p r j [ k u s d s f y , e . My } k j k g k b z L d n y , o a g k ; j l d s M j h d s fo | k f k z ka ds f y , fo " k ; o k j d { k k 9 o h a l s 1 2 o h a r d i z u c i d r s k j f d ; k x ; k g a i z u c i d ea i j E i j k x r i z u k a d s v f r f j D r u o h u i z u k a d k l e k o s k f d ; k x ; k g a i z u c i d b d k b b k j , o a e . My dh i j h { k k ; k s t u k d s v u d k j r s k j f d ; k x ; k g s f t l l s v P N s v a d i k l r d j u s d s l k f k & l k f k i j h { k k f k z ka ea fo " k ; ds i f r : fp m R i U u g k s c h A

i z u c i d d s v H k k o ea f ' k { k d k a i k f ' u d k a v k s fo | k f k z ka d k s i k B ; i q r d d s v U r ea f n ; s x , i j E i j k x r i z u k a i j f u H k j j g u k i m f k g a b l l s f o " k ; d k e W ; k a d u 0 ; f D r i j d ( Subjective ) g k s t k r k g s r f k k f o f H k U u ' k s k f . k d m l s ; ka ds v k / k k j i j e W ; k a d u u g h a g k r k g a b l h v k o ' ; d r k d k s / ; k u ea j [ k r s g q e . My u s g k b L d n y 1 9 o h a 1 0 o h a z r f k k g k ; j l d s M j h 1 1 1 o h a 1 2 o h a z d s l H k h fo " k ; ds i z u c i d d k f u e k z k f d ; k g a b l i z u c i d l s f ' k { k d k a , oa fo | k f k z ka ea f u r u o h u i z u k a d s f u e k z k dh v f H k : fp m R i U u g k s c h A

i z u c i d ea fo " k ; dh m i y c / k ' k s { k d l k e x h d k s ' k k f e y f d ; k x ; k g a b l ea u o h u e k s y d i z u k a d k s fo " k ; o l r j f ' k { k . k d s m l s ; ] d f B u k b z L r j v k s v a d u dh x q k o R r k d s v u d k j l q a f B r d j d s j [ k k x ; k g a i z u c i d ea e . My dh i j h { k k ; k s t u k d s v u d k j v f r y ? k m U k j h ; ] y ? k m U k j h ; , oa n h ? k m U k j h ; i z u k a d k l e k o s k f d ; k x ; k g a i f r ; k s c h i j h { k k d s f y , v H ; k l g r q o l r f u " B i z u k a d k H k h l e k o s k i z u c i d ea f d ; k x ; k g a f t l l s i f r ; k s c h i j h { k k v k a d s v H ; k l ea l g k ; r k f e y s c h A i f r f n u ] i f r l l r k g ] i f r e k g v k s i f r o " k z u o h u i z u k a d s c k j s ea fo | k f k z k a f ' k { k d k a i k f ' u d k a i j h { k d k a v k s l k e k U ; t u l s f o " k ; o k j e . My u o h u i z u k a d k s v k e i = r f d ; k t k o s k A v k i d s } k j k i s " k r fo " k ; o k j u o h u i z u k a d k s t k M e l j i f r o " k z i z u c i d d k l a k k s k u e . My } k j k f d ; k t k o s k ] f t l l s i z u c i d v f / k d i f j i w k z v k s v k / k a u d r e g k s j g a

ea s v k ' k k g s f d e . My } k j k t k j h i z u c i d fo | k f k z k a f ' k { k d k a i k f ' u d k a , oa i j h { k d k a d s f y , m i ; k s c h f l ) g k s c k A

' k d k d k e u k v k a l f g r --

  
1/4 s feat 1/2  
v k b z , - , l -

I fpo

N-x- ek/; fed f ' k { k k e . My ] j k ; i j

fo"K; %& I LÑr ¼ kekU; ½  
d{kk nl oha

bdkbZ & 01  
I f/k I f/k foxg] I f/k uke

vfr y?kpnÜkjh; izu ¼½ iR; d ea1 vød

izu 1& I f/k dj uke fyf[k, & ¼dkbZ02½  
iz\$ , trsA I r-\$ tu%A fNn-\$ u%A

izu 2& I f/k foPNn dj uke fyf[k, & ¼dkbZ02½  
I [ks = A fnXxt%A gfja oUns A

izu 3& fjDr LFkku dh iñrZ dhft, &  
1- I r-\$ ----- ¾ I fPpr~A  
2- ----- \$ , rs¾ yrs rs A  
3- I ekV-\$ ----- ¾ I ekMfi A

izu 4& t'Ro 0; atu ds nks mnkgj.k fyf[k, A

izu 5& iñZ i I f/k dk , d mnkgj.k nhft, , oa I f/k foPNn dj fyf[k, A

izu 6& rr-\$ f'ko%¾ rFPNo%& mnkgj.k ea gksus okys i fjorZu dks fyf[k, A

izu 7& r-dsvkxsy-vkus ij r-dsLFkku ij D; k i fjorZu gks tkrk gs\

izu 8& I fu/k foPNn dj I fu/k dk uke fyf[k, & ¼k-VSA½

fi rj'p] eke |] xq cZk] egsoj% jes k% jkekUukfLr] jkes kfkHkgrk] nkl ks fLe]  
ukorrñ i strñ xjks =] , dsd% egkskf/k% I nñ] Hkoue] 'k; ue] i R; q dkj% fi =kdfñ%  
I w kLre] Jh' k% y?kñe%fi r. ke] mPpkj . ke] /kuñVødkj% okxh' k% fnXxt% egk¥t; %  
mMMhu] txUukFk% ok³e; e] rYy{k. ke] gfja oUn\$ fNuu% vf³dr% yrs , rñ  
ekrMM% xjks =

izu 9& fuEufyf[kr 'kCnka ds I fu/k djds I fu/k dk uke fyf[k, &  $\frac{1}{2}k-VSA\frac{1}{2}$

bfr \$ mDRok] xk=skq \$ vfi] fo | k \$ , dk] fu% \$ thoe} n'kkuuks \$ vgjr}

onu \$ mnj] f'k'k% \$ vfi] I R; \$ vurk] ; L; \$ vflr] df"k% \$ /ku; k]

eDrks \$ vfi] u \$ vol hnfr] egrh \$ bg] LFkku% \$ vflr] r= \$ , o] u \$

vur} okYehde-\$ bo] vfr \$ bo] ns'k% \$ vLekd} uk; % \$ r} ekrk \$ , dk]

'kkfUr% \$ mUkek] iq; k% \$ p] fo | k \$ , dk] cfg% \$ , o] Hk{k; r-\$ fuR; }

HkX; \$ mn; e} i e-\$ p] i e% \$ vtk; r} th.k% \$ v'uh; kr} u \$ vye}

izki ; fr \$ vk'kj fNn% \$ vuFkk} ifj.k; \$ mRI o% 'k; kuks \$ vflr]

Lukrd \$ mUkj] okjk<sup>3</sup>xuk \$ bo] izdfr% \$ b; e} i ; k% \$ vuknjkr} mi \$

vkSkfr] gjh \$ , rk} eqh \$ bek} x<sup>3</sup>xs \$ vew

y?kqUkjh; izu

izu 1& I fu/k dh ifjHkk"kk fyf[k, , oa0; at u I fu/k dk , d mnkgj .k fyf[k, A  $\frac{1}{3}\frac{1}{2}$

izu 2& I fu/k foPNn dj uke fyf[k, &  $\frac{1}{2}dkbz02\frac{1}{2}$   $\frac{1}{2} \times 4 = 2\frac{1}{2}$

mTtoy% vf<sup>3</sup>dr% rPNo% xjks = A

izu 3& ; fn r-ds vkxs 'k-gks rks nkuka feydj ----- curk gS \ bl fu; e I s

I EcfU/kr nks mnkgj .k fyf[k, A  $\frac{1}{4} \times 2 = 2\frac{1}{2}$

izu 4& fjDr LFkkuka dh ifrZ dhft , &  $\frac{1}{2}dkbz03\frac{1}{2}$   $\frac{1}{4} \times 3 = 3\frac{1}{2}$

1- ----- \$ vkuu%  $\frac{3}{4}$  "kMkuu%

2- rr-\$ -----  $\frac{3}{4}$  rf) re~

3- o/k-\$ /k%  $\frac{3}{4}$  -----

4- x e-\$ -----  $\frac{3}{4}$  xQr%

5- ----- \$ vkSkfr  $\frac{3}{4}$  mi kSkfr A

izu 5& I fu/k djds I fu/k uke fyf[k, &  $\frac{1}{2}dkbz02\frac{1}{2}$   $\frac{1}{2} \times 4 = 2\frac{1}{2}$

okd-\$ gfj%

gfje-\$ olns

yHk-\$ /k%

d" k- \$ r%

r= \$ , 0

i t u 6& ¼½ I fl/k dsfdrusi d kj gkrsgð\ i R; d dk mnkgj .k nhft , A ¼1½ + 1½ = 3½

¼½ 0; ¥tu I fl/k fdl s dgrsgð\ mnkgj .k I fgr fyf[k; s \¼1½ + 1½ = 3½

¼ ½ ij: i I fl/k fdl s dgrsgð\ mnkgj .k I fgr fyf[k, A ¼1½ + 1½ = 3½

¼½ i dfrHkko I fl/k fdl s dgrsgð\ mnkgj .k I fgr fyf[k, A ¼1½ + 1½ = 3½

&&00&&

bdkbz & 02

Lojkur & xk\$ | k\$ uk\$ e`  
0; ¥-tukur & i q } i ffku} fxj] vgu} i ; l ~  
l oZuke & vnl } bñ'k} dhñ'k} dfri ; ] mHk  
l d ; kokph& 50&100

vfr y?kqñUkjh; izu

izu 1& funðkkud kj 'kCn : i fyf[k, ½dkbz02½ ¼K-VSA½

^xk\$ & l Ireh & , dopu A

^uk\$ & i peh & cgøpu A

^u\* & prfkhz & cgøpu A

izu 2& fuEufyf[kr 'kCnka ds foHkfDr] opu fyf[k, ½dkbz02½ ¼K-VSA½

ukok] ufHk% xkñ ; %

izu 3& v/kfyf[kr 'kCnka ds funðkkud kj : i fyf[k, ½dkbz02½ ¼K-VSA½

i q ~ f}rh; k , dopu

fxj~ l Ireh cgøpu

l ; l ~ rirh; k , dopu

izu 4& fuEufyf[kr l d ; kokph 'kCnka dks vdkæ ea fyf[k, & ½dkbz02½ ¼K-VSA½

v"VpRokfj d kr} l Irfr% , dk' khfr%

izu 5& fuEufyf[kr l d ; kvka dks l l dr ea fyf[k, & ¼K-VSA½

99] 89] 62

izu 6& vskdkjur 'kCn fdl s dgrs gð\

izu 7& vnl -L=hfya , oa vnl -ui q dfya dsfdl &fdl foHkfDr ea vrj gð\  
¼K-VSA½

izu 8& fuEufyf[kr : i ka ds eny'kCn fyf[k, & ½dkbz02½ ¼K-VSA½

veuk] i ; kál ] xoke~

izu 9&  $\frac{1}{4}\frac{1}{2}$  fuEufyf[kr 'kCnka dk funž kkuđ kj rhuka opuka ea 'kCn: i fyf[k, &  $\frac{1}{4}$ dkbz nkš  $\frac{1}{4}K-VSA\frac{1}{2}\frac{1}{4}/3 \times 3 = 1 \times 2 = 2\frac{1}{2}$

$\frac{1}{4}\frac{1}{2}$ ^xkš r}rh; k foHkfDr	$\frac{1}{2}\frac{1}{2}$ ^  kš i peh foHkfDr
$\frac{1}{8}\frac{1}{2}$ ^ukš l Ireh foHkfDr	$\frac{1}{4}\frac{1}{2}$ ^u* i Fkek foHkfDr
$\frac{1}{5}\frac{1}{2}$ ^i fFku* "k" Bh foHkfDr	$\frac{1}{6}\frac{1}{2}$ ^i đ ~ l Ireh foHkfDr
$\frac{1}{7}\frac{1}{2}$ ^fxj* r}rh; k foHkfDr	$\frac{1}{8}\frac{1}{2}$ ^vnl ~ $\frac{1}{4}$ =lfyax $\frac{1}{2}$ i peh foHkfDr
$\frac{1}{9}\frac{1}{2}$ ^vgu* r}rh; k foHkfDr	$\frac{1}{10}\frac{1}{2}$ ^i ; l ~ i peh foHkfDr
$\frac{1}{11}\frac{1}{2}$ ^vnl ~ $\frac{1}{4}$ ui đ d fyax $\frac{1}{2}$ "k" Bh foHkfDr	$\frac{1}{12}\frac{1}{2}$ ^rkn' k* prđkhz foHkfDr
$\frac{1}{13}\frac{1}{2}$ ^fno* f}rh; k foHkfDr	

$\frac{1}{6}\frac{1}{2}$  fuEufyf[kr 'kCn : i ka dsey 'kCn] foHkfDr] opu rFkk vFkZfyf[k, &  $\frac{1}{4}$ dkbz nkš  $\frac{1}{4}K-VSA\frac{1}{2}\frac{1}{4} \times 4 = 1 \times 2 = 2\frac{1}{2}$

$\frac{1}{4}\frac{1}{2}$ fnok	$\frac{1}{2}\frac{1}{2}$ rkn' k%	$\frac{1}{3}\frac{1}{2}$ veuk	$\frac{1}{4}\frac{1}{2}$ i ; fl	$\frac{1}{5}\frac{1}{2}$ gs vq%
$\frac{1}{6}\frac{1}{2}$ veHk%	$\frac{1}{7}\frac{1}{2}$ xh"kđ	$\frac{1}{8}\frac{1}{2}$ i đ ke~	$\frac{1}{9}\frac{1}{2}$ i fFk"kq	$\frac{1}{10}\frac{1}{2}$ uj%
$\frac{1}{11}\frac{1}{2}$ ukšHk%	$\frac{1}{12}\frac{1}{2}$ xkšHk%			

izu 10& fuEufyf[kr 'kCnka ds 'kCn : i fyf[k, &  $\frac{1}{4}$ dkbz nkš  $\frac{1}{4} \times 2 = 2\frac{1}{2}$

xks & i peh & , dopu  
u & l Ireh & cgppu  
vnl ~ & i đ/yax & i Fkek , dopu  
i ; l ~ & prđkhz & cgppu

izu 11& fuEufyf[kr 'kCn: i ka ds opu , oa foHkfDr fyf[k, &  $\frac{1}{4}$ dkbz nkš  $\frac{1}{2} \times 4 = 2\frac{1}{2}$

i ; l ke-  
vgus  
fxje-  
ukfo

izu 3& fuEufyf[kr 'kCn : i k&dks i gpkudj fun&kkud& kj muds : i fyf[k, &  
½dkbZnk& ¼1+1 = 2½

xke~ & rirh; k cgøpu

uH; ke~& i p&eh cgøpu

i Fk% & pr&khZ , dopu

vg% & f}rh; k , dopu

izu 4& fuEufyf[kr 'kCn : i k&dks i gpkudj eny 'kCn fyf[k, & ½dkbZnk&  
¼1+1 = 2½

| k& ; ke} i &I % fxjke} i ; k&I

&&00&&



## bdkbZ & 03

/kkrq: i & 04

Hokfnx.k] nk ¼; PN½ vp} czt} ri~'kq] g] uh] Hkt} ; t~

vnkfnx.k& gu} i k ¼j {k.k½ ng

tqkR; kfnx.k& nk ¼nku½

fnokfnx.k& l j vki~

rpkfnx.k & eq p] fo'k} i PN} fon~

rukfnx.k & xg~

pgkfnx.k & x.k} i ky~

vfr y?kqñUkj; izu

izu 1&	fuEufyf[kr fØ; ki nka ds dky i fjorū dhft, ¼dkbZ 02½	¼K-VSA½
	vplē & yk/ydkj	¼1 x 2 = 2½
	rifr & yVydkj	
	'kksp"; fl & yVydkj	
izu 2&	uhpsfy[k s inka ds opu i fjorū dj fyf[k, ¼dkbZ 02½	¼K-VSA½
	vri r~ & cgøpu	¼1 x 2 = 2½
	czt; e~ & f}opu	
	gjkegs & , dopu	
izu 3&	mi ; Ør /kkrq: i ka l sokD; i wkZ dhft, & ¼dkbZ 02½	¼K-VSA½
	ckydk% o{kku~ & ¼' ; ½	¼1 x 2 = 2½
	ješ k% i q rda & ¼ B½	
	f'k'k% i ; % & ¼i c½	
izu 4&	funž kkuđ kj /kkrq i fyf[k, & ¼dkbZ 02½	¼K-VSA½
	nn~ vkReu; nh yVydkj i zi q , dopu	¼1 x 2 = 2½
	'kp~ ijLeš nh yk/ydkj e-i z , dopu	
	ri~ ijLeš nh yVydkj v-i q cgøpu	

izu 5& fuEufyf[kr fØ; k i nka dks i gpkudj /kkq ydkj] i q "k o opu fyf[k, &  $\frac{1}{4}dkbZ nk\frac{3}{2}$   $\frac{1}{4} \times 4 = 1 = 1+1=2\frac{1}{2}$

vu; r} 'kkpæ} gfj"; kegs A

izu 6&  $\frac{1}{4}\frac{1}{2}$  fuEufyf[kr I æ; kvka dks I ldr Hkk"kk ea fyf[k, &  $\frac{1}{4}dkbZ nk\frac{3}{2}$   $\frac{1}{4}U-VSA\frac{1}{2}$   
 $\frac{1}{4} + 1 = 2\frac{1}{2}$

$\frac{1}{4}1\frac{1}{2} 27$	$\frac{1}{4}2\frac{1}{2} 36$	$\frac{1}{4}3\frac{1}{2} 41$	$\frac{1}{4}4\frac{1}{2} 49$	$\frac{1}{4}5\frac{1}{2} 56$
$\frac{1}{4}6\frac{1}{2} 59$	$\frac{1}{4}7\frac{1}{2} 66$	$\frac{1}{4}8\frac{1}{2} 79$	$\frac{1}{4}9\frac{1}{2} 84$	$\frac{1}{4}10\frac{1}{2} 89$
$\frac{1}{4}11\frac{1}{2} 99$	$\frac{1}{4}12\frac{1}{2} 68$	$\frac{1}{4}13\frac{1}{2} 43$	$\frac{1}{4}14\frac{1}{2} 22$	$\frac{1}{4}15\frac{1}{2} 47$
$\frac{1}{4}16\frac{1}{2} 53$	$\frac{1}{4}17\frac{1}{2} 69$	$\frac{1}{4}18\frac{1}{2} 84$	$\frac{1}{4}19\frac{1}{2} 100$	$\frac{1}{4}20\frac{1}{2} 96$

$\frac{1}{4}c\frac{1}{2}$  fuEufyf[kr I æ; kvka dks fgluh Hkk"kk ea fyf[k, &  $\frac{1}{4}dkbZ nk\frac{3}{2}$   $\frac{1}{4}U-VSA\frac{1}{2}$

$\frac{1}{4}1\frac{1}{2}$ Åufodkfr%	$\frac{1}{4}2\frac{1}{2}$ f=d kr~	$\frac{1}{4}3\frac{1}{2}$ v"VpRokfj d kr~	$\frac{1}{4} + 1 = 2\frac{1}{2}$
$\frac{1}{4}4\frac{1}{2}$ I Iri ¥pk' kr~	$\frac{1}{4}5\frac{1}{2}$ , dksu"kf"V%	$\frac{1}{4}6\frac{1}{2}$ , d"kf"V%	
$\frac{1}{4}7\frac{1}{2}$ i ¥pl Irfr%	$\frac{1}{4}8\frac{1}{2}$ v' khfr%	$\frac{1}{4}9\frac{1}{2}$ uofr%	
$\frac{1}{4}10\frac{1}{2}$ i ¥puofr%	$\frac{1}{4}11\frac{1}{2}$ 'kre~	$\frac{1}{4}12\frac{1}{2}$ i ¥pf=d kr~	
$\frac{1}{4}13\frac{1}{2}$ f}i ¥pk' kr~	$\frac{1}{4}14\frac{1}{2}$ v"VI Irfr%	$\frac{1}{4}15\frac{1}{2}$ "kMk' khfr%	
$\frac{1}{4}16\frac{1}{2}$ prqubfr	$\frac{1}{4}17\frac{1}{2}$ uof=d kr~	$\frac{1}{4}18\frac{1}{2}$ "kkM' k	
$\frac{1}{4}19\frac{1}{2}$ uofod kfr%	$\frac{1}{4}20\frac{1}{2}$ I Iri ¥pk' kr~		

izu 7& fuEufyf[kr ijLeš nh /kkqyka ds funž kkuq kj rhuka opuka ea /kkq: i fyf[k, &  $\frac{1}{4}dkbZ nk\frac{3}{2}$

$\frac{1}{4}1/3 \times 3 = 1 = 1 \times 2 = 2\frac{1}{2}$   $\frac{1}{4}K-VSA\frac{1}{2}$

$\frac{1}{4}\frac{1}{2}$ $\frac{1}{4}1\frac{1}{2}$ 'Hkñ /kkqyVydkj e-i q	$\frac{1}{4}2\frac{1}{2}$ 'Hkñ /kkqyVydkj m-i q
$\frac{1}{4}3\frac{1}{2}$ 'Hkñ /kkqyks/ydkj izi q	$\frac{1}{4}4\frac{1}{2}$ 'Hkñ /kkq fof/kfy <sup>3</sup> ydkj e-i q
$\frac{1}{4}5\frac{1}{2}$ 'Hkñ /kkqy <sup>3</sup> ydkj m-i q	
$\frac{1}{4}c\frac{1}{2}$ $\frac{1}{4}1\frac{1}{2}$ 'nn* $\frac{1}{4}nk\frac{1}{2}$ /kkqyVydkj m-i q	$\frac{1}{4}2\frac{1}{2}$ 'nn* $\frac{1}{4}nk\frac{1}{2}$ /kkqyVydkj e-i q
$\frac{1}{4}3\frac{1}{2}$ 'nn* $\frac{1}{4}nk\frac{1}{2}$ /kkqyks/ydkj e-i q	$\frac{1}{4}4\frac{1}{2}$ 'nn* $\frac{1}{4}nk\frac{1}{2}$ /kkq fof/kfy <sup>3</sup> -izi q
$\frac{1}{4}5\frac{1}{2}$ 'nn* $\frac{1}{4}nk\frac{1}{2}$ /kkqy <sup>3</sup> ydkj e-i q	



	1/3 1/2 e#p* /kkrqyk/ydkj izi e	1/4 1/2 e#p* /kkrqfof/kfy <sup>3</sup> -ydkj izi e
	1/5 1/2 e#p* /kkrqy <sup>3</sup> ydkj m-i e	
1/4 1/2	1/1 1/2 ^d* /kkrqyVydkj m-i e	1/2 1/2 ^d* /kkrqyVydkj izi e
	1/3 1/2 ^d* /kkrqyk/ydkj izi e	1/4 1/2 ^d* /kkrqfof/kfy <sup>3</sup> -ydkj e-i e
	1/5 1/2 ^d* /kkrqy <sup>3</sup> ydkj e-i e	
1/4 1/2	1/1 1/2 ^Øh* /kkrqyVydkj izi e	1/2 1/2 ^Øh* /kkrqyVydkj e-i e
	1/3 1/2 ^Øh* /kkrqyk/ydkj e-i e	1/4 1/2 ^Øh* /kkrqfof/kfy <sup>3</sup> -ydkj e-i e
	1/5 1/2 ^Øh* /kkrqy <sup>3</sup> ydkj m-i e	
1/6 1/2	1/1 1/2 ^Kk* /kkrqyVydkj m-i e	1/2 1/2 ^Kk* /kkrqyVydkj izi e
	1/3 1/2 ^Kk* /kkrqyk/ydkj e-i e	1/4 1/2 ^Kk* /kkrqfof/kfy <sup>3</sup> -ydkj m-i e
	1/5 1/2 ^Kk* /kkrqy <sup>3</sup> ydkj e-i e	
1/4 1/2	1/1 1/2 ^x.k~ /kkrqyVydkj e-i e	1/2 1/2 ^x.k~ /kkrqyVydkj m-i e
	1/3 1/2 ^x.k~ /kkrqyk/ydkj izi e	1/4 1/2 ^x.k~ /kkrqfof/kfy <sup>3</sup> -ydkj e-i e
	1/5 1/2 ^x.k~ /kkrqy <sup>3</sup> ydkj izi e	
1/6 1/2	1/1 1/2 ^vki~ /kkrqyVydkj izi e	1/2 1/2 ^vki~ /kkrqyVydkj m-i e
	1/3 1/2 ^vki~ /kkrqyk/ydkj izi e	1/4 1/2 ^vki~ /kkrqfof/kfy <sup>3</sup> -ydkj m-i e
	1/5 1/2 ^vki~ /kkrqy <sup>3</sup> ydkj e-i e	
1/4 1/2	1/1 1/2 ^v'k~ /kkrqyVydkj e-i e	1/2 1/2 ^v'k~ /kkrqyVydkj m-i e
	1/3 1/2 ^v'k~ /kkrqyk/ydkj e-i e	1/4 1/2 ^v'k~ /kkrqfof/kfy <sup>3</sup> -ydkj izi e
	1/5 1/2 ^v'k~ /kkrqy <sup>3</sup> ydkj izi e	
i / z u 8 &	fuEufyf[kr vkReusi nh /kkrqkadsfunã kkuq kj rhukaopuka ea /kkrq: i fyf[k, & 1/k-VSA 1/2	
1/4 1/2	1/1 1/2 ^nn~ /kkrqyVydkj izi e	1/2 1/2 ^nn~ /kkrqyk/ydkj e-i e
	1/3 1/2 ^nn~ /kkrqyVydkj m-i e	1/4 1/2 ^nn~ /kkrqy <sup>3</sup> ydkj e-i e
	1/5 1/2 ^nn~ /kkrqfof/kfy <sup>3</sup> -izi e	

1/2 1/2	1/4 1/2 ^ä* /kkrqyVydkj e-i q	1/2 1/2 ^ä* /kkrqyks/ydkj m-i q
	1/3 1/2 ^ä* /kkrqyVydkj i zi q	1/4 1/2 ^ä* /kkrqy <sup>3</sup> ydkj m-i q
	1/5 1/2 ^ä* /kkrqfof/kfy <sup>3</sup> -i zi q	
1/3 1/2	1/4 1/2 ^nk* 1/4 nn 1/2 /kkrqyVydkj m-i q	1/2 1/2 ^nk* 1/4 nn 1/2 /kkrqyks/ydkj i zi q
	1/3 1/2 ^nk* 1/4 nn 1/2 /kkrqyVydkj e-i q	1/4 1/2 ^nk* 1/4 nn 1/2 /kkrqy <sup>3</sup> ydkj m-i q
	1/5 1/2 ^nk* 1/4 nn 1/2 /kkrqfof/kfy <sup>3</sup> -i zi q	
1/4 1/2	1/4 1/2 ^e#p* /kkrqyVydkj i zi q	1/2 1/2 ^e#p* /kkrqyks/ydkj e-i q
	1/3 1/2 ^e#p* /kkrqyVydkj m-i q	1/4 1/2 ^e#p* /kkrqy <sup>3</sup> ydkj i zi q
	1/5 1/2 ^e#p* /kkrqfof/kfy <sup>3</sup> -e-i q	
1/5 1/2	1/4 1/2 ^ru~ /kkrqyVydkj e-i q	1/2 1/2 ^ru~ /kkrqyks/ydkj m-i q
	1/3 1/2 ^ru~ /kkrqyVydkj i zi q	1/4 1/2 ^ru~ /kkrqy <sup>3</sup> ydkj e-i q
	1/5 1/2 ^ru~ /kkrqfof/kfy <sup>3</sup> -i zi q	
1/6 1/2	1/4 1/2 ^d* /kkrqyVydkj m-i q	1/2 1/2 ^d* /kkrqyks/ydkj i zi q
	1/3 1/2 ^d* /kkrqyVydkj e-i q	1/4 1/2 ^d* /kkrqy <sup>3</sup> ydkj m-i q
	1/5 1/2 ^d* /kkrqfof/kfy <sup>3</sup> -e-i q	
1/7 1/2	1/4 1/2 ^Øh* /kkrqyVydkj i zi q	1/2 1/2 ^Øh* /kkrqyks/ydkj e-i q
	1/3 1/2 ^Øh* /kkrqyVydkj m-i q	1/4 1/2 ^Øh* /kkrqy <sup>3</sup> ydkj i zi q
	1/5 1/2 ^Øh* /kkrqfof/kfy <sup>3</sup> -m-i q	
1/8 1/2	1/4 1/2 ^Kk* /kkrqyVydkj e-i q	1/2 1/2 ^Kk* /kkrqyks/ydkj m-i q
	1/3 1/2 ^Kk* /kkrqyVydkj i zi q	1/4 1/2 ^Kk* /kkrqy <sup>3</sup> ydkj e-i q
	1/5 1/2 ^Kk* /kkrqfof/kfy <sup>3</sup> -i zi q	
1/9 1/2	1/4 1/2 ^l q /kkrqyVydkj i zi q	1/2 1/2 ^l q /kkrqyks/ydkj e-i q
	1/3 1/2 ^l q /kkrqyVydkj m-i q	1/4 1/2 ^l q /kkrqy <sup>3</sup> ydkj i zi q
	1/5 1/2 ^l q /kkrqfof/kfy <sup>3</sup> -e-i q	

i / u 9& fuEufyf[kr 'kCn: i ka dseny 'kCn] foHkfDr] opu rFkk vFkZfyf[k, & ¼dkbZ nkš  
 $\frac{1}{4} \times 4 = 1 = 1+1=2\frac{1}{2}$  ¼K-VSA½

¼1½ xkšHk% ¼2½ | kškq ¼3½ ukš; % ¼4½ u"ka ¼5½ i fFkFHK%  
 ¼6½ i d s ¼7½ fxfj ¼8½ veHkke~ ¼9½ vgkšHk% ¼10½ i ; fl  
 ¼11½ veqk ¼12½ rkn' k% ¼13½ fnoe~

i / u 10& fuEufyf[kr ijLeš nh /kkrq: i ka dseny /kkrq ydkj] i q "k rFkk opu fyf[k, &  
 ¼dkbZ nkš

$\frac{1}{4} \times 4 = 1 = 1+1=2\frac{1}{2}$  ¼K-VSA½

¼1½ ¼1½ Hkoke% ¼i½ Hkfo"; Fk ¼ii½ Hkollrq ¼v½ Hkos š ¼½ vHkorke~  
 ¼2½ ¼1½ vpkb% ¼i½ vfpz; r% ¼ii½ vpkfu ¼v½ vkpž~ ¼½ vpe~  
 ¼3½ ¼1½ uš; flr ¼i½ u; fl ¼ii½ u; ke~ ¼v½ vu; % ¼½ ues e~  
 ¼4½ ¼1½ ozt ko% ¼i½ of t"; Fk% ¼ii½ ozt kfu ¼v½ vozt u~ ¼½ oztr  
 ¼5½ ¼1½ Hk t r% ¼i½ Hk{; {k ¼ii½ Hk t ko ¼v½ vHk t ko ¼½ Hk t s š  
 ¼6½ ¼1½ gfl e ¼i½ gfu"; flr ¼ii½ guke ¼v½ vgre~ ¼½ glu; kr~  
 ¼7½ ¼1½ nnkfe ¼i½ nkl; ke% ¼ii½ nnrq ¼v½ vnnke~ ¼½ n | ko  
 ¼8½ ¼1½ uR; Fk% ¼i½ uRL; fl ¼ii½ uR; ke~ ¼v½ vuR; % ¼½ uR; r~  
 ¼9½ ¼1½ ešpke% ¼i½ ešp ¼ii½ vešpre~¼v½ ešpe~ ¼½ ekš; fr  
 ¼10½ ¼1½ i PNflr ¼i½ i š; ke% ¼ii½ i PNkfu ¼v½ vi PNu~ ¼½ i PNš š  
 ¼11½ ¼1½ djksr ¼i½ dfj"; fl ¼ii½ dšllrq ¼v½ vdšž~ ¼½ dq kž~  
 ¼12½ ¼1½ Øh. kflr ¼i½ dš; ke% ¼ii½ Øh. kko ¼v½ vØh. ku~ ¼½ Øh. kh; š  
 ¼13½ ¼1½ xg-kflr ¼i½ xgh"; kfe ¼ii½ xg-kllrq ¼v½ vxg-kkr~¼½ xg-kh; kr~  
 ¼14½ ¼1½ tkukfe ¼i½ KkL; Fk% ¼ii½ tkuke ¼v½ vtkuu~ ¼½ tkus š  
 ¼15½ ¼1½ v' ukfe ¼i½ vf' k"; ke%¼ii½ v' ullrq ¼v½ vk' uk% ¼½ v' uh; š  
 ¼16½ ¼1½ x. k; fr ¼i½ x. kf; "; ke%¼ii½ x. k; llrq ¼v½ vx. k; u~¼½ x. k; š  
 ¼17½ ¼1½ vklupflr ¼i½ vklL; kfe ¼ii½ vklupke ¼v½ vkluks~ ¼½ vklug ke

izu 11& fuEufyf[kr vkReusi nh /kkrq/ka ds emy /kkrij ydkj] i q "k rFkk opu fyf[k, & %dkbZ nk%  
 $\frac{1}{4} \times 4 = 1 = 1+1=2\frac{1}{2}$  %K-VSA $\frac{1}{2}$

- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  nnUrs  $\frac{1}{4}\frac{1}{2}$  nfn"; s  $\frac{1}{4}\frac{1}{2}$  nnkegS  $\frac{1}{4}\frac{1}{2}$  vnnr  $\frac{1}{4}\frac{1}{2}$  nnsru-
- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  gj/os  $\frac{1}{4}\frac{1}{2}$  vgjs  $\frac{1}{4}\frac{1}{2}$  gjUrke-  $\frac{1}{4}\frac{1}{2}$  gjs-  $\frac{1}{4}\frac{1}{2}$  gfj. ; s
- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  nns  $\frac{1}{4}\frac{1}{2}$  nKL; kegs  $\frac{1}{4}\frac{1}{2}$  nnkogS  $\frac{1}{4}\frac{1}{2}$  vnUk  $\frac{1}{4}\frac{1}{2}$  nnhju-
- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  e%ps  $\frac{1}{4}\frac{1}{2}$  e%S; Urs  $\frac{1}{4}\frac{1}{2}$  e%prke-  $\frac{1}{4}\frac{1}{2}$  vfolnr-  $\frac{1}{4}\frac{1}{2}$  folnj u-
- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  folnI s  $\frac{1}{4}\frac{1}{2}$  oRL; Urs  $\frac{1}{4}\frac{1}{2}$  folnLo  $\frac{1}{4}\frac{1}{2}$  vfolnr-  $\frac{1}{4}\frac{1}{2}$  folnj u-
- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  dq rs  $\frac{1}{4}\frac{1}{2}$  dfj"; Urs  $\frac{1}{4}\frac{1}{2}$  dq "o  $\frac{1}{4}\frac{1}{2}$  vd%fg  $\frac{1}{4}\frac{1}{2}$  d%hr-
- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  Øh. khrs  $\frac{1}{4}\frac{1}{2}$  ØS; Urs  $\frac{1}{4}\frac{1}{2}$  Øh. kegs  $\frac{1}{4}\frac{1}{2}$  vØhf. k  $\frac{1}{4}\frac{1}{2}$  Øh. khju-
- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  tkus  $\frac{1}{4}\frac{1}{2}$  KKL; rs  $\frac{1}{4}\frac{1}{2}$  tkurke-  $\frac{1}{4}\frac{1}{2}$  vtkur-  $\frac{1}{4}\frac{1}{2}$  tkuhju-
- $\frac{1}{4}\frac{1}{2}$   $\frac{1}{4}\frac{1}{2}$  I %os  $\frac{1}{4}\frac{1}{2}$  I K"; I s  $\frac{1}{4}\frac{1}{2}$  I %urke-  $\frac{1}{4}\frac{1}{2}$  vI %lo  $\frac{1}{4}\frac{1}{2}$  I %hefg

y?kq%Ukj; izu

izu 1&v- ijLeS nh /kkrq/ka ds uke fyf[k, & %dkbZ 02%  $\frac{1}{4}\frac{1}{2} \times 4 = 2\frac{1}{2}$  %K-SA $\frac{1}{2}$   
 c- vkReusi nh /kkrq/ka ds uke fyf[k, & %dkbZ 02%  $\frac{1}{4}\frac{1}{2} \times 4 = 2\frac{1}{2}$

izu 2& v/k%fyf[kr /kkrq: i ka ds emy /kkrij ydkj] i q "k , oa opu fyf[k; s \ %dkbZ 02%  
 vxPNke] i B\$ % on} xfe"; Fk] fy[kko% onr- %K-SA $\frac{1}{2}$   
 $\frac{1}{4} \times 4 = 1 = 1+1=2\frac{1}{2}$

izu 3& mfpr I Ecl/k cukb, & %dkbZ rhu%  $\frac{1}{4}+1+1 = 3\frac{1}{2}$  %K-SA $\frac{1}{2}$   
 vxPNe~ & fof/kfy<sup>3</sup>-ydkj  
 i Bke & yVydkj  
 vxPNke & yk%ydkj  
 Hkoş e- & y<sup>3</sup>ydkj

izu 4& fuEuk%dr ijLeS nh , oa vkReusi nh /kkrq/ka dks p; u dj ds fyf[k; s &  
 $\frac{1}{4}\frac{1}{2} \times 4 = 1 = 1+1=2\frac{1}{2}$  %K-SA $\frac{1}{2}$   
 nn} vp} ; t] nqk} u'k] fon-

&&00&&

bdkbz & 04

okP; ifjorū & 02

i R; ; & 02

rf) r & 02

vfr y?kqūkjh; izu

- izu 1& okP; fdl sdgrsgā \ ¼dkbz nk½ ¼1 + 1 = 2½ ¼U-VSA½
- izu 2& dr̄bkP; ea dūkkz eafdl foHkfDr dk iz kx gkrk gS \ ¼U-VSA½
- izu 3& jke%gl fr ea dksū l h fØ; k dk iz kx fd; k x; k gS \ ¼U-VSA½
- izu 4& dr̄bkP; ds dūkkz dh i Fkek foHkfDr ds LFkku ij deḅkP; ea ----- foHkfDr gks tkrh gSA ¼U-VSA½
- izu 5& dr̄bkP; ds deZ dksf}rh; k foHkfDr ds LFkku ij deḅkP; ea ----- foHkfDr gks tkrh gSA ¼U-VSA½
- izu 6& deḅkP; eafØ; k ds iq "k vksj opu ----- ds iq "k vksj opu ds vuḅ kj gks tkrs gSA ¼U-VSA½

y?kqūkjh; izu ¼i R; d ea 3 v d½

- izu 7& dr̄bkP; fdl sdgrsgā \ dr̄bkP; dk , d okD; fyf[k; s \ ¼U-VSA½  
¼1 ½ + 1½ = 3½
- izu 8& deḅkP; fdl sdgrsgā deḅkP; dk , d okD; fyf[k; s \ ¼U-VSA½  
¼1 ½ + 1½ = 3½
- izu 9& HkkookP; fdl sdgrsgā \ Hkko okP; dk , d okD; fyf[k; s \ ¼U-VSA½  
¼1 ½ + 1½ = 3½
- izu 10& dr̄bkP; ds fuEufyf[kr okD; ka dks deḅkP; eacnydj fyf[k; s \ ¼dkbz nk½ ¼U-VSA½

¼1 ½ ckyd% i qrdai Bfr \ ¼1 + 1 = 2½

¼2 ½ l % xgaxPNfrA

¼3 ½ ckydk i qia i ' ; frA

¼4 ½ ckyd% rai ' ; frA

¼5 ½ jke% ekua i ' ; frA



$\frac{1}{6}\frac{1}{2}$  vga Roke~i ' ; kfeA  
 $\frac{1}{7}\frac{1}{2}$  l %o{ka i ' ; frA  
 $\frac{1}{8}\frac{1}{2}$  l %Roke~i ' ; frA  
 $\frac{1}{9}\frac{1}{2}$  ckydk%o{kku~i ' ; flrA  
 $\frac{1}{10}\frac{1}{2}$  ; pka eke~i ' ; Fk%A  
 $\frac{1}{11}\frac{1}{2}$  ckyd%vLeku~i ' ; frA  
 $\frac{1}{12}\frac{1}{2}$  Roe~rke i ' ; fl A  
 $\frac{1}{13}\frac{1}{2}$  jes k%oua xPNfrA  
 $\frac{1}{14}\frac{1}{2}$  ckyd%i qrdai BrA  
 $\frac{1}{15}\frac{1}{2}$  ckfydk vkoka i ' ; frA  
 $\frac{1}{16}\frac{1}{2}$  o ; a l w z i ' ; ke%A  
 $\frac{1}{17}\frac{1}{2}$  f'k'kq i ; %fi orA  
 $\frac{1}{18}\frac{1}{2}$  ' ; ke%oua xr%A  
 $\frac{1}{19}\frac{1}{2}$  vkoka i qi kf.k i ' ; ko%A  
 $\frac{1}{20}\frac{1}{2}$  rkSeke~i ' ; r%A

izu 11&

fuEufyf[kr debkP; ds okD; ka dks dr'bkP; ea cnydj fyf[k; &  $\frac{1}{2}$ dkbz nkz

$\frac{1}{2}$ U-VSA $\frac{1}{2}$

$\frac{1}{11}\frac{1}{2}$  jkes k jko.k% gr%A

$\frac{1}{4} + 1 = 2\frac{1}{2}$

$\frac{1}{2}\frac{1}{2}$  e; k i qrd~i B; rA

$\frac{1}{3}\frac{1}{2}$  ckydu l %n' ; rA

$\frac{1}{4}\frac{1}{2}$  ckyd%vgan' ; A

$\frac{1}{5}\frac{1}{2}$  e; k Roe~n' ; l A

$\frac{1}{6}\frac{1}{2}$  ckfyd; k l w %n' ; rA

$\frac{1}{7}\frac{1}{2}$  jkes k oua xE; rA

$\frac{1}{8}\frac{1}{2}$  vfuyx xteaxE; rA

$\frac{1}{9}\frac{1}{2}$  rx l k n' ; rA

$\frac{1}{10}\frac{1}{2}$  r; k vgan' ; A

¼ 1½ ckyd%o{kk n' ; UrA

¼ 2½ jke%jko.ka vgurA

¼ 3½ Jfed%dk; ã dreA

¼ 4½ xok r'.kkfu Hk{; UrA

¼ 5½ r%o{kk% n' ; UrA

izu 12& fuEufyf[kr drðkP; ds okD; ka dks HkkookP; ea cnfy; & ¼dkbZ nk½

¼U-VSA½

¼ 1½ l %gl frA

¼ + 1 = 2½

¼ 2½ rksgl r%A

¼ 3½ rsgl flurA

¼ 4½ Roe~gl fl A

¼ 5½ ; øka gl FkA

¼ 6½ ; w a gl Fk%A

¼ 7½ vga gl kfeA

¼ 8½ voke~gl ko%A

¼ 9½ o; e~gl ke%A

¼ 10½ l % [kVøk; ka 'krA

¼ 11½ l % xgs Lofi frA

¼ 12½ Roa dFka jkfnf" k \

¼ 13½ vga uß jkfnfeA

¼ 14½ o; afo | ky; sfr"Bke%A

¼ 15½ gfj%o{dq Bs ol frA

izu 13& fjDr LFkkuka dh i firZ dhft , & ¼dkbZ rhu½

¼A-VSA½

¼ x 3 = 3½

¼ 1½ ----- okP; ds okD; vdeð vkj l deð nksuka gkrs gA

¼ 2½ ----- okP; ds okD; dny l deð gkrs gA

1/3 1/2 ----- okP; ds okD; ea deZ ugha gkrkA

1/4 1/2 drbkP; dk drkZ ----- foHkfDr ea rFkk deZ ----- foHkfDr ea  
gkrs gA

1/5 1/2 debkP; dk drkZ ----- foHkfDr ea rFkk deZ ----- foHkfDr ea  
gkrk gA

1/6 1/2 drbkP; dh fØ; k ----- ds vuq kj gkrh gA

1/7 1/2 ----- okP; ea f}opu rFkk cgøpu ugha gkrA

izu 14& fuEufyf[kr okD; ka dks fy[kdj i R; d ds okP; dk uke fyf[k; s \ 1/2dkbz nkz

1/8 1/2 jke% i qrdai BfrA 1/4 + 1 = 2 1/2

1/9 1/2 rsu l w %n' ; rA

1/10 1/2 o; a xga xPNke%A

1/11 1/2 jkesk xga xE; rA

1/12 1/2 rsu n' ; rA

1/13 1/2 jke% ekgua i ' ; frA

1/14 1/2 Ro; k fy[ ; rA

1/15 1/2 o; a ØhMke%A

1/16 1/2 ; qekfHk% n' ; rA

1/17 1/2 rsfo | ky; a xPNfUrA

1/18 1/2 rkh; ka xE; rA

1/19 1/2 ckfyd; k i B; rA

1/20 1/2 ; økH; ke~ckyd% n' ; rA

1/21 1/2 vga Hkoue~ i ' ; kfeA

1/22 1/2 ckyd% o{kk% n' ; UrA

izu 15& drbkP; ] debkP; ; k HkkookP; dk , d&, d okD; fyf[k, A 1/2dkbz nkz

1/4 + 1 = 2 1/2 1/4-VSA 1/2

izu 16& dnUr fdl sdgrsgA \ mnkgj.k l fgr fyf[k, A 1/4 + 1 = 2 1/2 1/4-VSA 1/2

izu 17& fuEufyf[kr dnUrka l s /kkrqrFkk i R; ; vyx dhft , & ¼dkbz nkš

¼l + 1 = 2½ ¼U-VSA½

¼1½ ¼½ {kE; ¼i½ yH; ¼iii½ l k/; ¼v½ j{; ¼½ ts  
¼vi½ i š ¼vii½ ns A

¼2½ ¼½ dk; l ¼i½ /kk; l ¼iii½ ekX; A

¼3½ ¼½ dkjd ¼i½ i kBd ¼iii½ yš[kd ¼v½ nk; d ¼½ 'kkl d  
¼vi½ /kkjd

¼4½ ¼½ i Bu~ ¼i½ yš[ku ¼iii½ Hkkk.k ¼v½ d"kl k ¼½ nkk.kA

¼5½ ¼½ pr0; ¼i½ , f/kr0; A

¼6½ ¼½ drl¼drkl¼i½ nkr` ¼nkrkl¼ ¼iii½ grl¼gùkk¼ ¼v½ ekr` ¼ekrk¼A

¼7½ ¼½ 'kkdkgkjh ¼i½ feF; koknh ¼iii½ l k/ndkjh ¼v½ fe=ntgh ¼½ cāoknhA

izu 18& rf) r fdl sdgrsgā \ mnkgj.k l fgr fyf[k, A ¼l + 1 = 2½ ¼U-VSA½

izu 19& fuEufyf[kr rf) r 'kCnka l si dfr&i R; ; vyx djdsfyf[k, & ¼U-VSA½

¼1½ ¼½ okl ¼o% ¼i½ ukdy% ¼iii½ okf' k" B% ¼v½ vk' oi re¼½ Jko.kA

¼2½ ¼½ nđ ¼i½ 'kđ ¼iii½ pš ¼v½ uš keA

¼3½ ¼½ i kške~ ¼i½ vkš xoe~ ¼iii½ i kš=A

¼4½ ¼½ jk?ko ¼i½ i k. Mo ¼iii½ ; knoA

¼5½ ¼½ i kFkl

¼6½ ¼½ rkjfd r ¼i½ i f' i r ¼iii½ i f. Mr ¼v½ gf"kr ¼½ i gyfdr  
¼vi½ yfTtr ¼vii½ i pkfjrA

¼7½ ¼½ xq Ro ¼i½ y?kqo ¼iii½ f' k' kqo ¼v½ futRoA

¼8½ ¼½ nf. Mu~ ¼i½ i f{ku~ ¼iii½ ; kšxu~ ¼v½ jfFkuA

¼9½ ¼½ xq rk ¼i½ f' k' kqk ¼iii½ y?kqk ¼v½ i kqk ¼½ turk  
¼vi½ xterkA

¼10½ ¼½ ekfU=d% ¼i½ rkfU=d% ¼iii½ ; kfU=d% ¼v½ /kfudA

vfr y?kqñÜkjh; izu

- izu 1& drǔkP; l sdeǔkP; cukb, & ¼dkbz nkš ¼K-VSA½
- 1- l %eka i'; fr ¼l + 1 = 2½
- 2- l %i qrdai Brq
- 3- ješ k% xkea xPNfr
- izu 2& r0; r~, oavuh; j~iR; ; dk iz, ks fdl vFkZ eafd; k tkrk gS\ fdl h /kkrqea ¼l+1 = 2½ ¼K-VSA½
- mi; q̄r iR; ; yxkb; sA
- izu 3& iñfr iR; ; vyx dhft, & ¼dkbz 02½ ¼l+1 = 2½ ¼K-VSA½
- , f/kr0; ] n'kžh; ] yH; ] ys[kd] ys[ku
- izu 4& r0; r~iR; ; yxkdj nks mngj.k iLr q dhft, A ¼l+1 = 2½ ¼K-VSA½
- izu 5& Y; q̄~iR; ; l s; q̄r nks mngj.k nhft, A ¼½+½ = 1½ ¼K-VSA½
- izu 6& l kFkZ 'kCnka ¼ fri kndkž ea yxusokys iR; ; ka dksD; k dgk tkrk gS\ mngj.k ¼K-VSA½
- l fgr fyf[k, A
- izu 7& brp} bfu] ry} v.k-iR; ; yxkdj , d&, d l kFkZ 'kCn cukb; sA ¼K-VSA½
- ¼½+4 = 2½

&&00&&

## bdkbZ & 05

dkjd rFkk mi in foHkfDr; kWrFkk rnk/kkfjr vuφkn

- 1- vuφkn & fgUinh I s I ĩÑr & 04
- 2- I ĩÑr I s fgUinh & 04
- 3- v0; ; & 02

vfr y?kqñÜkjh; izu ¼v0; ; ½

- izu 1& v0; ; dh ifjHkk"kk fyf[k; s A ½½
- izu 2& tks 'kCn viusmi ; kx dh fdl h Hkh ifjLFkfr ea ?kVrs c<rs ugha gđ mlga D; k dgk tkrk gđ\ ¼½
- izu 3& fuEufyf[kr okD; kák ea fØ; k fo' kšk.k dks vyx dhft , & ¼dkbZ nkš½ ¼+1 = 2½
- 1- I %brLrr%HkēfrA
  - 2- bZoj%I oē fr"BfrA
  - 3- rs o{kL; v/k% i BfUrA
- izu 4& fuEu fyf[kr v0; ; ka dks I ĩdr okD; ka ea iz kx dhft , A ¼dkbZ nkš½ ¼+1 = 2½  
dnk] vFk] fde] de] dē%
- izu 5& mi I xZ v0; ; fdu inka ea tkM/s tkrs gđ\ ¼½
- izu 6& mfpr I Ecu/k tkM+ & ¼dkbZ nkš½ ¼x3 = 3½
- I Ecu/k ckskd & 'o%
- foLe; kfn ckskd & ; kor~
- dkyokpd & I oē
- LFkku okpd & gk gk
- izu 7& fuEufyf[kr fgUinh ds okD; ka dk I ĩdr Hkk"kk ea vuφkn dhft , & ¼dkbZ 5½  
¼x5 = 5½ ¼A&S-VSA½

¼½ eđ fo | ky; dh vkj tk jgk gđ

½½ os I c vkj[kka I s ns[krs gđ

1/3 1/2 rø I c dgk; tkrs gks \  
 1/4 1/2 i M+I s i Ûks fxjrs gÅ  
 1/5 1/2 ckyd ep I sfxjrk gÅ  
 1/6 1/2 i Mka I s Qny fxjrs gÅ  
 1/7 1/2 og ckyd dgk; x; k \  
 1/8 1/2 ge I c ?kæus dsfy, tk; xÅ  
 1/9 1/2 og fhk [kkjh dks /ku nrk gÅ  
 1/10 1/2 rø D; k djrs gks \  
 1/11 1/2 ckyd fir k ds I kFk tkrk gÅ  
 1/12 1/2 og jke dk fe= gÅ  
 1/13 1/2 og i frfnu cxhps dks tkrk gÅ  
 1/14 1/2 ge I c i <us dsfy, fo |ky; tkrs gÅ  
 1/15 1/2 eNyh i kuh ea jgrh gÅ  
 1/16 1/2 og ?kj I svkrk gÅ

izu 8&

fuEufyf [kr fglnh ds okD; ka dk I ðdr Hkk"kk ea vupkn dhft, & 1/2 dkb & 5/2  
 1/4 A&S-VSA 1/2

1/1 1/2 ; = tho% r= f'koÅ  
 1/2 1/2 rL; vkxeus v; auxj% i fj i r vHkorA  
 1/3 1/2 Lokeh vkReku m% vrho i frHkk' kkyh oDrk ys [kd% p vkl hrA  
 1/4 1/2 rsu I g cky% rnyh% vfi vxPNrA  
 1/5 1/2 /kfud% fu/kz; % /kua nnkfrA  
 1/6 1/2 Jh x.ks kk; ueÅ  
 1/7 1/2 o{k; % i =kf.k i rfu rA  
 1/8 1/2 i e% tudu I g xPNfrA  
 1/9 1/2 jk tk i e-or-iztk i ky; frLeA  
 1/10 1/2 I ðdfr% I ðdrekf JrkÅ

¼1½ vga fo | ky; a xRok f'kf{kdku uekfeA

¼2½ v | Lokeh foodkuUnL; tUe fnoI %vflrA

¼3½ fo | kafcuk thoue~i'kpr~HkofrA

¼4½ vga d{kk; ka i Fkea LFkkue~i klrokuA

¼5½ vLekda jk"V% Hkkj ro"K% vflrA

¼6½ npxkzrh bo y{ehckbz l æk"Kz d'rorhA

¼7½ e; k uoeh d{kk mÙkh.kkA

¼8½ xrL; 'kkpue~u dj.kh; eA

¼9½ Hkkj eno% pkj kxkfeR LFkkus vflrA

½20½ jkf te% NÙkhl x<L; iz kx% bfr ifl )%A

izu 9&

fuEufyf[kr v0; ; ka dk l Ædr okD; ka ea iz kx dhft, &

¼A&S-VSA½

- 1- vdLekr~ 2- vfpja 3- vrho 4- vr% 5- v=
- 6- vFk 7- vFkok 8- v| 9- vlrjk 10- vU; =
- 11- vfi 12- v/kpk 13- br% 14- bfr 15- bnkuta
- 16- bo 17- mPp% 18- mi fj 19- , d= 20- , dnk
- 21- , oa 22- , o 23- dFka 24- dnk 25- dr%
- 26- d# 27- Do 28- p 29- fpja 30- fpjsk
- 31- fpjk; 32- fpjkr~ 33- fpjL; 34- pr~ 35- rr%
- 36- r= 37- rnk 38- rfgl 39- uua 40- uDra
- 41- i'pkr~ 42- ij% 43- ijk 44- feF; k 45- ; r~
- 46- ; r% 47- ; Fkk 48- oje~ 49- 'ku% 50- 'ku% 'ku%
- 51- 'o% 52- l gl k 53- l k; a 54- fg 55- á%
- 56- vuq 57- vFk% 58- oker% 59- tkrq 60- ifr
- 61- l g 62- vye~ 63- cfg% 64- \_\_rs 65- [kyq
- 66- ifjr% 67- l kde~ 68- f/kd~ 69- vrho~ 70- vr%
- 71- vFk~ 72- vlrjk 73- bfr 74- p 75- pr~
- 76- rfgl 80- uua 81- ijk 82- ; Fkk 83- l gl k



izu 10& fuEufyf[kr mi l xkã dk iz, kx dj fØ; k in cukb; s; k 'kCnka ea iz, kx dj ds  
 l kFKZd 'kCn cukb; A 1/4&S-VSA1/2

- |          |         |          |         |         |
|----------|---------|----------|---------|---------|
| 1- iz    | 2- ijk  | 3- vi~   | 4- l e~ | 5- vuq  |
| 6- ful ~ | 7- fuj~ | 8- nd ~  | 9- nj~  | 10- fo  |
| 11- vk   | 12- fu  | 13- vf/k | 14- vfi | 15- vfr |
| 16- l q  | 17- mr~ | 18- vfhk | 19- ifr | 20- mi  |
| 21- ,oa  | 22- ,o  | 21- vo   | 22- ifj |         |

vfr y?kpnÜkjh; izu 1/4vupkn1/2 1/4dkbz ikp1/2 1/4 x 5 = 51/2

izu 1& fglnh l sl lÑr ea vupkn dhft, & 1/421/2 1/4K-VSA1/2

- 1- eay[kd gWA
- 2- ; gkWfoodkuln vkJe gSA
- 3- vki dk D; k uke gS \

izu 2& l lÑr ea vupkn dhft, & 1/4dkbz 021/2 1/4K-VSA1/2

- 1- ; g ejk l gi kBh gjh'k gSA
- 2- /ku dsfcuk thou 0; FkZ gSA
- 3- ml dks l lÑr dk vR; f/kd Kku gSA

izu 3& l lÑr ea vupkn dhft, & 1/4dkbz 021/2 1/4K-VSA1/2

- 1- f'k"; /keZ dks tkurk gSA
- 2- HkR; Hkkj <krk gSA
- 3- ckyd vlu [kkrk gSA

izu 4& fglnh ea vupkn dhft, & 1/4dkbz 021/2 1/4K-VSA1/2

- 1- nonÜk%foik; xkannkfr
- 2- iqsk l g vkxr%fir k
- 3- Ñ".k% xkea xPNfr

izu 5& fglnh ea vupkn dhft, & %dkbZ02½ ½K-VSA½

- 1- ifjr% xtea unh vflr A
- 2- nønÚk% dVs vLrs
- 3- vga Hkk=k I g xPNkfe

izu 6& mfpr dkj dka dk iz kx dj fjDr LFkkuka dh i firZ dhft, & %dkbZ02½ ½K-VSA½

- 1- ----- ghu% uj% u 'kkkrs ¼ q; ½ ¼+1 = 2½
- 2- ----- i#% yo% ¼ ke½
- 3- Ñ".kk; eknda ----- ¼ p½

izu 7& mfpr in fplg ¼ ½ yxkb, &

- 1- r= I jkøj% ----- vflr @ I flr
- 2- fo | k j {kfr ekrk ----- bo @ , o
- 3- v= o{kk I flr @ vflr

y?kqñÚkj h; izu

izu 1& I ðÑr ea vupkn dhft, %dkbZ04½ ¼ x4 = 4½ ½A&S-SA½

- 1- jkek; .k I ðÑr ea gSA
- 2- og dy vk; sk A
- 3- r# I c Hkkstu djksA
- 4- ekgu xhr xkrk gSA
- 5- ejh nkuksvkj Nk= gSA
- 6- og igLdkj i klr fd; k A

izu 2& I ðÑr ea vupkn dhft, & %dkbZ04½ ¼ +4 = 4½ ½A&S-SA½

- 1- xæk fgeky; I sfudyrh gSA
- 2- cht I svødj fudyrk gSA
- 3- og eka dks Lej.k djrk gSA
- 4- dfo; ka ea dkyfynkl JSB gSA
- 5- ikphu dky ea I c i <rs FksA

- 6- i tr% dky mBuk pkfg, A
- izu 3& fgluh ea vupkn dhft, & ¼dkbz 4½ ¼l +4 = 4½ ¼A&S-SA½
- 1- i k.ka l j {kfr ui %A
  - 2- fo | k Kkuk; Hkofr] /kuap l q[kk; A
  - 3- f'k'kos ØhMuda jkprs A
  - 4- vLekda nš kL; uke Hkkjr o" k% vflr A
  - 5- jkesk grks jko. k%
- izu 4& fuEufyf [kr okD; ka es l sjš [kkādr i nka dk fgluh ea vFkZ fyf [k, A ¼A&S-SA½
- 1- fo | k Kkuk; Hkofr A
  - 2- l Roja /kkofr e x %A
  - 3- {k. keo fo | ka yH; rs A
  - 4- l % ' o% vkxfe"; fr A
  - 5- ; w e- Hkkst ua [kknFk A

&&00&&

## bdkbz & 06

I ekl & I Hkh izdkj ds I ekl dk foxg , oa I kekl d 'kCn

v0; ; hHkko] rRiq "k] deZkkj; ] }Un] f}xq] cgqfpg½

vfr y?kqñÜkj; izu ¼dkbz nks½ iR; d ea02 vñ

- izu 1& I ekl dh ifjHkk"kk nhft, A ¼K-VSA½
- izu 2& ftI dsnkuka in izkku gkrs gsmI s dksu I k I ekl dgrsgs\ ¼K-VSA½
- izu 3& f=iFke-ea dksu I k I ekl gS\ bl h I ekl dk , d mnkgj.k fyf[k, A ¼K-VSA½
- izu 4& u ds vkxsLoj 'kCn gks rks ml ds LFkku ij D; k gks tkrk gS\ ¼K-VSA½
- izu 5& I ekl foxg dj uke fyf[k, & dkbz nks ¼K-VSA½  
 1- vfXunX/k% 2- ipxtee~ 3- R; Dr I oLo%A
- izu 6& I kekl d 'kCn fyf[k, & ¼dkbz nks½ ¼K-VSA½  
 ¼½ jke'p y{e.k'p ½½ nq kkr~ =kr% ¼½ egka pkl ks i q "k%
- izu 7& I qFke~ds I eku , d mnkgj.k fyf[k, A ¼K-VSA½
- izu 8& fdl I ekl eaigyk 'kCn nñ js 'kCn ds vFkZ dksufuf' pr djrk gS\ ¼K-VSA½
- izu 9& rRiq "k I ekl ds izdkj fyf[k, A ¼K-VSA½
- izu 10& I ekl fdl s dgrsgs\ mnkgj.k I fgr fyf[k, A ¼K-VSA½
- izu 11& I ekl ds fdrus izdkj gS\ uke fyf[k, A ¼K-VSA½
- izu 12& rRiq "k I ekl dk y{k.k fy[krs gq mnkgj.k fyf[k, A ¼K-VSA½
- izu 13& deZkkj; I ekl dk y{k.k fy[krs gq mnkgj.k Hkh fyf[k, A ¼K-VSA½
- izu 14& v0; ; h Hkko I ekl dk y{k.k mnkgj.k I fgr fyf[k, A ¼K-VSA½
- izu 15& cgqfpg I ekl dk y{k.k mnkgj.k I fgr fyf[k, A ¼K-VSA½
- izu 16& }U} I ekl dk y{k.k mnkgj.k I fgr fyf[k, A ¼K-VSA½
- izu 17& f}xq I ekl dk y{k.k mnkgj.k I fgr fyf[k, A ¼K-VSA½
- izu 18& f}xq I ekl rFkk cgqfpg I ekl eaD; k varj gS\ ¼K-VSA½
- izu 19& v0; ; h Hkko I ekl rFkk rRiq "k I ekl eaD; k varj gS\ ¼K-VSA½

izu 20& }Un l ekl rFkk deZkkj; l ekl eaD; k varj gS\  $\frac{1}{4}k-VSA\frac{1}{2}\frac{1}{2}\frac{1}{2}$

izu 21& fuEufyf[kr l kekfl d inka dk l ekl foxg djds l ekl dk uke Hkh fyf[k, &  
 $\frac{1}{4}+4 = 2\frac{1}{2}$   $\frac{1}{4}k-VSA\frac{1}{2}$

- |                        |                             |                       |                       |
|------------------------|-----------------------------|-----------------------|-----------------------|
| 1- ; Fkk' kfdR         | 2- ekl i dē~                | 3- nhunkue~           | 4- mi xaxē~           |
| 5- ck.kgr%             | 6- ctge.kfgra               | 7- pk\$Hk; e~         | 8- mi 'kjne~          |
| 9- d".kkfJr%           | 10- u[kfHkUu%               | 11- o{ki fr r%        | 12- n'kjFk i e%       |
| 13- l Hkki f.Mr%       | 14- 0; ogkj d q ky          | 15- Hkou i fr r%      | 16- uojRu%            |
| 17- l l r" k z %       | 18- egki q "k%              | 19- fi r j k S        | 20- i j k i d k j %   |
| 21- j k t i q "k%      | 22- v k p j . k f u i q k % | 23- Nk=kS             | 24- u h y k i y e ~   |
| 25- egkRek             | 26- n' k k u u %            | 27- oh. kki kf . k %  | 28- d q k k l u e ~   |
| 29- n o k l g j %      | 30- Hkii fr                 | 31- /kekFkS           | 32- f t r f l u n z % |
| 33- n o k l k e y e ~  | 34- r h f k z k = k         | 35- e u k j a t u e ~ | 36- f i r H k D r %   |
| 37- fo   k f o g h u % | 38- fi z o k f n u h        | 39- l R l x f r %     | 40- f u c k Z k k     |
| 41- fo   k n k u e ~   | 42- j e s k a               | 43- o l n o l r a     | 44- /kku; l e) k %    |
| 45- fou; 'khy%         | 46- t y e x u %             |                       |                       |

izu 22& fuEufyf[kr 'kCnka l s l ekfl d in cukdj l ekl dk uke Hkh fyf[k, &  $\frac{1}{4}k-VSA\frac{1}{2}$

- |                                  |   |  |
|----------------------------------|---|--|
| 1- uhye~p rrmRi ye~              | 2- l kxj% e\$kyk ; L; k% l k                    | 3- u m f p r e ~                             |
| 4- u c k ā . k %                 | 5- u v f k %                                    | 6- i p k u k a j k = h . k k a l e k g k j % |
| 7- x a k ; k % t y e ~           | 8- u j \$ k q m R r e %                         | 9- j k e ' p j k e ' p j k e ' p             |
| 10- f o f / k e ~ v u f r Ø E ;  | 11- i f r r k f u i . k k z u ; L e k r ~ l %   |  |
| 12- u v l ; %                    | 13- u h y e ~ v E c j e ~ ; L ; l %             |  |
| 14- u x j L ; l e h i e ~        | 15- u v k x r %                                 | 16- u k f L r / k u a ; L ;                  |
| 17- u v f k z                    | 18- u l R ; a                                   | 19- v f X u u k n X / k %                    |
| 20- b l u n z ; l [ k k          | 21- u , D ; e ~                                 | 22- : i L ; ; k X ; e ~                      |
| 23- j k e d " . k k S            | 24- g e l l r % p f ' k f ' k j % p o l l r % p |  |
| 25- v k p k ; \$ k q f u i q k % |   |  |

vfr y?kqñÜkjh; izu iR; d ea1 vø

izu 1& tc nks; k nksvf/kd in feydj fdl h vU; in dk vFKZ0; Dr djrsgðrksogka  
, d l ekl gkrk g\$ fuEufyf[kr l kekfl d inka eamDr ifjHkk"kk fdl ea fl )  
gkrh gS & ¼K-VSA½¼½

¼½ uhykRi ye† ¼½ Hkircfy% ¼½ l kxj e\$kyk

izu 2& u ~rRiq "k l ekl dk mnkgj .k gS & ¼K-VSA½

¼½ vuD; e† ¼½ pUnz ks[kj% ¼½ ' ; sHk; e~A

izu 3& ml l ekl dk uke fyf[k,] ftl ds vksmi l xlyxrk gSA ¼K-VSA½

izu 4& vUvj Li"V dhft, & ¼K-VSA½¼½

¼½ ?ku' ; ke% & ¼½ Ñ".kkfJr%A

izu 5& l ekl dj uke fyf[k, & ¼dkbz nk½ ¼K-VSA½¼½

¼½ eHkdL; jktk ¼½ fnu&fnue~ ¼½ l lrxæ~  
&&00&&

bdkbZ & 07  
fucU/k

izu 1& fdl h , d fo"k; ij l ĩr Hkk"kk ea 15 okD; ka ea fucU/k fyf[k, A ¼K-VSA½

1- l nkpkj 1/8½

2- vuqkkl ue~

3- Nk=thoue

4- egkdfo dkyfynkl %

izu 2& fdl h , d fo"k; ij l ĩr Hkk"kk ea 15 okD; ka ea fucU/k fyf[k, A ¼K-VSA½

1- NRrhl x<si; Mue~

2- vkn'kZ v/; ki d%

3- i ĩrdky; L; egRoe~

4- fo | k

izu 3& fdl h , d fo"k; ij l ĩr Hkk"kk ea 15 okD; ka ea fucU/k fyf[k, A ¼K-VSA½

1- egki q "k%

2- mRl o%

3- cl Ur \_\_rq

4- o"kkZ \_\_rq

5- i jki dkj%

6- /ksu%

7- vLekda ns k%

8- i ĩrdeA

&&00&&

bdkbz & 08

v- vifBr vuŋNŋ & 04

c- i = ys[ku & 04

y?kqñÜkj h; izu ¼vifBr x | ká k½

izu 1& vLutykfndL; ō 0; k; keL; egrh vko'; drk orŋs' kjhj | ō/kZuk; A 0; k; kesu 'kjhLFkko; ok% i ŋV% I 't k; Urs jDrL; | E; d-I 'pkjks Hkofr] LQŋr% i kl; rŋ jksk% i yk; Urŋ thoua p vkgykne; aHkofr A LoLFks 'kjhjs , o LoLFka efLr"da I EHkofr bfr /kkj .kk I oĒkU; k vflr A ¼A&S-VSA½

¼d½ mi ; ŋr x | ká k grqmfpr 'kh"kd fyf[k, A

¼[k½ I kjk k fyf[k; s A

izu 2& vflEu~txfr I oZkušqfo | ō I oZJŠBa/kue-A fo | k/kusu foghu%; %ekuo%vflr I %eŋ[k%vI H; %bfr dF; rsA Kkusu fouk ; Fkk i 'kq/keZ v/keZ, k%fopkja drŋ u 'kDukŋr rFkŋ ekuoks fi fo | ; k foghu% i ki i q; k% dÜkŋ; vdÜkŋ; ; k%fopkja drŋ u I eFk% fo | kfoghu%ekuo% vU/k% , o bfr dF; rsA ¼A&S-VSA½

mi ; ŋr x | ká k dksi <dj uhpsfy[ks izuka dsmÜkj I Lŋr eafyf[k, &

1- mi ; ŋr x | ká kL; 'kh"kdafy[kr \

2- I kjk k ys[kua djksrq \

izu 3& thoul; I pk: I pkyuk; ] I k/kukfu vi f{krkfu A v/kqk foKkuL; fodkl su ekuo thoua I ŋj; kre~A ; krk; kr 0; oLFkk; ke~jy] ok; q kuk nhuka fodkl su deŋkfi vYi dkyu xUrŋ' kD; rsA fo | ŋ 0; oLFkk u dŋyaxge~vfi r I a U=k. kka I pkyus vfi egrh vko'; drk iŋr% tkrk A v/kqk o; a oŠKfud I k/ku%fcuk i ³xŋr-A ¼A&S-VSA½

1- I kjk'ka ys[kua djksrq A

2- 'kh"kd nnrqA

izu 4& ekuothous dkfu vko'; drRokfu fopkj .kh; errA vflEu~ ; qs I oš ekuok% /kekEKZdkeekšksq vFkš jk; .kk% , o n' ; UrsA on0; kl su xhrk; ka ksx HkfDr&dkeZ q deZ ; ō tukukef/kdkj% Lohdr%A fdUrŋ ekuok% deZ.k% i ja Qyei škUrA rs u tkufUr] Qyškq dL; fpnfi ukf/kdkj% Qyki f{k.k% tuk% deQyeyHku~foj Drk% tk; UrsfdUrŋHkxor%d".kL; mi nš kksorŋs; r~deQy grŋjell; eku% tu% deZ q



vl 3x%ek. LrA

1/4&S-VSA1/2

1- I kjk'ka ys[kue~djksrqa

2- 'kh"kdla fy[krqA

izu 5&

I ldr I kfgR; L; egrh ijEijk orzA ofnd Hkk"kl q onksi fu"knkn; % ykidd  
I ldrsn'ku& igk.kfgrkl I kfgR; 'kkL=kn; %jfprkA HkkjrL; egkdfokqx.kuk; ka  
dufpr-dfFkre& ^dfuf"Bdkf/kf"Br dkfynkl % I ldr I kfgR; sdkfynkl jfprk%  
I lrxdfk% 'kkkUrA rL; ksi ek vrho eukgjkA dffkrefi% ^mi ek&dkfynkl L; ]  
Hkkj o j Fkzkj oeA\*

1/4&S-VSA1/2

1- I kjk'ka& ys[kue~dq r A

2- 'kh"kdla& fy[krqA

izu 6&

fo | k; k , o i Hkkosk vusd uo&uok vfo"dkjk vkfo"dir fon'kokfl fhk%oKkfud%  
I Eifr ok; q ku }kjk vYih; I k dkysu tuk njkn~njrja ; kUrA ^rkj\*\* }kjk  
njfLFkrsu tusu I g tuk okrikyki adpUrA ^jSM; k\*\* }kjk vfr njnsksxk; ekua  
xhra Hkk"k.kkfn-d-p tuk% I ehi or~J.kofUrA cg&I e; &I k/; kfu cg&tu&I k/  
; kfu p dek.k ; U=oyu bnkuh vYi dkysu vYi jo p tuS I k/kf; ra'kD; UrA  
bn bekfuk'p; ztudkfu dk; k.k dFka I EHkofUr \ fo | k; k , o oyurA

1/4&S-VSA1/2

1- I kjk'ka& ys[kue~dq r A

2- 'kh"kdla& fy[krqA

izu 7&

oKkfudsvfLeu~; qskku i d k jke ; kfu& kfu I k/kukfu vkfo"dir kfu I flrA rskq  
I kekpkj i=k.kkefi vU; rea LFkkua orzA dL; k-fi Kkr0; fo"k; L; vYih; I k  
dkysu 0; ki d% i pkjks ; Fkk I ekpkj i = }kjk d'kD; rsu rFkk vU; su dukfi  
mik; su vr, o Kku foLrkj {ks-s I ekpkj i =k.kka egrh mi ; kxrk orzA

1/4&S-VSA1/2

1- I kjk'ka& ys[kue~dq r A

2- 'kh"kdla& fy[krqA

i = y[ku

I Eck[ku ea 1 v[ ] fo" k; dFku ea 2½ v[ mi l gkjRe f'k"Vkpj = ½ = 4 v[

izu 1& vi us i kpk; Z dks nks fnol h; vodk'k grq i kFkZuk i = fyf[k, ftI ea vLoLFkrk  
dh l p[uk gksA ¼A&S-LA½

vFlok

vi uh d{k k ds 'k{kf.kd Hk.k grq i kpk; Z dks vkonu i = fyf[k, A

izu 2& vi us fe= ds i jh{k k eamPpre v[ i klr d[us i j c/kbZ i = fyf[k, A¼A&S-LA½

vFlok

vi uh cgu dh 'kknh ea l fEefyr gkus ds fy, vi us fe= dks i = fyf[k, A

izu 3& vi us i kpk; Z dks rhu fnuka ds vodk'k ds fy, l [dr Hk"kk ea, d i kFkZuk i =  
fyf[k, A ¼A&S-LA½

izu 4& i [rd i zk'kd dks i [rd eakus grq l [dr Hk"kk ea, d i kFkZuk i = fyf[k, A  
¼A&S-LA½

izu 5& vi us fir k ds l [dr Hk"kk ea, d i = fyf[k, ftI ea vki dh i <kbZ dk mYys[k  
gkA ¼A&S-LA½

izu 6& ØhMkf/kdkjh dks ØhMk ea vi uh l ghkkfxrk grq l [dr Hk"kk ea, d i = fyf[k, A  
¼A&S-LA½

&&00&&

bdkbz & 09

x   ká k	&	12
i   ká k	&	12
i z ukškj	&	10
dBLFkhdj .k   Hkkf"kr 'ykd	&	06
I qDr	&	04
fjDr LFkku dh i firz	&	03
mfpr I cdk tkMks	&	03

nh?kz mUkjh; izu

izu 1& fdlUgharhu x | ká k dk fglUrh ea vuopkn dhft , A ¼+3 = 12½ ¼K-LA½

¼½ Lokeh vkRekuln% vrho ifrHkk'kkyh oDrk ys[kd'pkfi vkl hr~ A vk/; kRe I cdk/ku% vU; fo"K; k.kka p i opuñ; % I % nš ks [; kfre~yC/koku~A I Ei fr rL; iz[kj ys[kU; k cgo% xBFkk% izdkf'krk% A f} [kMkReda xhrkrRo fpUrua vrho I Hkukgja vLr A

¼½ jkfk ,oa fopkj; fr I fr rL; nku'khyrka ijhf{krq nokf/ki fr% 'kØ% us=ghu ; kpdL; : ia /kkjf; Rok rRi jr% vonr~ gs jktu~ Hkor% nkuohjrka vkd. ; Z vk'kkflor% Hkor% I ehi a vkxrks fLe A no ! jfo 'kf'k rkjk eMyHkkf"kra txr~ , rr~dFkfeo i ' ; s e~p{kØ% ghu% A

¼ ½ I k dkuijL; ukuk i škohl g v/; ; ua vdjkr~A cjNhj Nky% Ñik.k% rL; k I gpjh vkl hr~A ohjf'kok; k% xkFkk% rL; k eq[kkxz vkl hr~A >kl huka uis k xak/kjsk I g fookg% vHkor~A fookgki jkUrs fdñpr~ o"kkDrja fu% arkuL; xak/kjL; eR; Ø% vHkor~A

¼½ Hkkj rh; euh"kh.kka mfDr% I R; a vLr ; r~ ukjh ukjk; .kh Hkofr A ukjh nqkz HkofrA ukjh I jLorh Hkofr A ^uk; Lrq i w; Urs; = jellrs r= nørk% A i kDru~ bfrgkl § i jk.kš onki fu"knš uk; k% efgek n' ; Urs A rk% I kekftd% /kkfed vkl; kfredskq dk; škq i q "kL; I gHkkfxuhj I gxkfeuh p Hkoflur A

izu 2& fdlUgh rhu x | ká kka dk fglUrh vuopkn dhft , & ¼K-LA½

¼½ vEcMdj o; L; I ãÑr i hfr%vLekl qxoñtu; fr fu'p; s A fdUrqrs vLi' ; rk

fuokj.k : ia; r~dk; ž vkjC/ke~rr~u l eklre~rL; vuoprū : i% Hkkj% vLekda  
l oškkaldu/k; k%fufgr% vflr A , rL; HkkjL; ogukr~dnkfi foed[kk% u o; eA

¼½ rPpnkuaprfozka& /kežkuž fo | knkuž i k.knkuavluunkuapšr A , oanku i drūsu  
turk tuknūL; l okadq žoe~A Jw rs& ekr`noksHko] fi r`noksHko bfr r=ñ  
efi ; kst; /oe~& nfjnnoksHko] e[ kznoksHko bfr A oržku HkkjrL; m) kj .kk;  
bna; žekfHkjo' ; a euL; o/ks e~A

¼ ½ fi rkJh , "k% ckš) fogkj% A , "k% mR[kusu i klr% A xžrdkyhu LFkki R; dyk fp=  
dyk; k'p vnHkq i žk.kavflr A v= efnjsk l g vkokl xgl; fuekžkan' ; rA  
vL; e[; d{ks Hkxor% cž) L; "k"BOhVkrD% efr% i Lrjfufež% fojkt rs 'kkškr  
pA v; afcgkjs prnž kd{k% fufežk% eB% f}ryk% pkflr A

¼n½ ; kfx i kg & nš! ušks nšk% vLekda l Qy Hke.Mya chke% A l i žāVa fo"k  
0; kdya 'kL=gra rR{k.kknš i utžora dē% A jktkfi rr~Jžok HkštadēkjL;  
i k.knkuk; rs i kffkžroku~A dki kfydks cž) l kxjsk l g gke nš; kf.k xghRok  
'e'kku Hkfe~vxPNr~A

izu 3& fuEufyf[kr x | kāk dk fglnh ea vuopkn dhft , A ¼dkž&ru½ ¼k~LA½

¼½ clrj cu i kUrjScLrj oškoaiž kj; u~ukjk; .ki žsvcm ekM+{ks=sfLfr jke d" .k  
fe'ku vkJea n"Vok tuk% bna Loxkž ea dFk; flrA vL; l fpru vkJeks; ž  
f'k{k} pfdRI k] d" k] tul šk] d"kd i f'k{k.k dšnž ; žk i f'k{k.k dšnž pŷr  
pfdRI k {ks=s foi .ku {ks=sfi vfrl EiUu% l škdšn% l žFkfi r%A vk/; kfred  
tkxj.k{ks=sfi vL; iz kl a i ž kšl reA

¼½ el; s; n~Lokh foodkulln% jk; i žsf}o" kš ; žra0; rhrokuA rL; kxeusuk; a uxj%  
i fji r% vHkorA Lokh foodkulln tu' krkCnh o" kšHko; aLekj dafuekž q l % vkRekuln%  
i k.ki .ksuk; rrA v; ekJe% vk/; kfred n' kūL; dšn% vflrA nkr0; & i kyhfDyud  
: i sk l ž fr"Br% vkšk/kky; ks; a tul ška drž fnokfu' ka l ayXu%A  
vfrl e}i žrdky; L; LFkki u; k Kku&x³xk i žgR; =A Bkdž jked" .knšky; s  
Loxkž ee~vkullnaiž reA

¼ ½ vFk dnkfpn~nku' kkykl qfopju~l jktk cžžku ykHksu l žrđVku kavfFkžukafojy  
l ž; ka foykš; vfpūr; r&ee~vffkž% r q /kuykHke=s k l Urkška HktUrA uua rs  
nkuohj k% l kškkx; 'kkfyu%; ku~; kpdk% 'kjhjL; v³xkfu vfi ; kpUrA , oajkK%  
Loškq xk=šofi fujkl fdre~foKk; l dya cgek.Ma0; kdya l žt kreA

1/4 1/2 I k vk<sup>3</sup>xy% I gHkh"ka ; q) edjkrA vUrs I k v"Vkn'k 'krkškj v"Vi ¥pk'kr~  
[kLrkcns tuw ekl L; v"Vkn'k fnuk<sup>3</sup>els 1/8 tuw 1858 1/2 ; q) a dRok =; ksoakfr  
o"khz k ohjk<sup>3</sup>xuk y{ehckbz i k.kku-vR; trA v | kfi >ka h nqz xq¥ trku-Lojku-  
tuk% LejflrA

izu 4& fuEufyf[kr x | kāk dk fgluh ea vuokn dhft, A 1/4dkb&rhul/2 1/4K-LA1/2

1/4 1/2 /kekLudBkuavUr%dj.kL; 'kq) ; si fjdYi rA ru p ekufI d%I dkp%vi xPNfrA  
LoPNs eufI bz oj%Lo; a I flUu/kUks A vuqg-kkfr p ^bz oj% I oBkurkukā bfr  
xhrkwpukrA vr%I oBkq tušq bz oj% fuol frA bfr fuf'pR; turk tuknZL;  
I ok drD; kA ru pšoj% id hnfra turk i u%I eufur%f'k[kj ai kIL; frA

1/4 1/2 fLuX/ke'uh; kr~fLuX/ka fg Hkq¥teku Lonrš f{ki a tjka xPNfr] okreuyki ; fr]  
'kj hjeq fpukš fr] n<hdjkr bflunz kf.k cykfHkdf) ej tu; fr] o.kā d kna  
pkfHkfuorž fr] rLekr-fLuX/ke'uh; krA ek=kof) Hkqraokrfi Uk dQkui kM; nk; j o  
foo/kz frA dōyal q[kafoi P; rA

1/4 1/2 v | rk%ukjh I y/Hkk] dkey ân; k n; ki fjr k Luge; h] eerke; h] fo'okl : i k]  
{kek: i k Hkollrq bfr vko' ; dhA v | kfi rk%y{eh] nqkL I hrk] y{ehckbz vkn; %  
Hkoflra rkl qR; kx cfynku& 'kkš Z I ei Z k 'kfDr&I rhRo fo'okl &vnHkq acq)  
dkškyk v | kfi i vtuh; k% Hkorqukjh ukjk; .khA

1/4 1/2 rrs oš kX; Hkki Uuks oRI jkt% Hksta jFksuoš; xk<ku/kdkjs xga uhrokuA Hkfe  
xqkh; Urjsfuf{kl; rajj{k p A rr' prgš f' kfyi fHK% I dqMyafuehfyrus=aHksta  
dēkj eLrdadjf; Rok rPpknk; jktHkouaxRok jktkuai z kE; vkg& Jherk; nkfn"Va  
rr~I kf/krefra rrs jktk i qo/kafoKk; &reiPNr&oRI jkt! [k<sup>3</sup>xi gkj I e; s  
i qsk fdeDra\ oRI jktLrRi =avnkrA jktk rkfu i =k{kjk. ; okp; rA

izu 5& fuEufyf[kr x | kāk dk fgluh ea vuokn dhft, A 1/4dkb&rhul/2 1/4K-LA1/2

1/4 1/2 Hkj eno% dchj /kke 1/4do/kkZ e.Mys 14-7 fd-eh- do/kkz k% njr% fLFkr%A , "k%  
eddy i oš Jākyk; kapšj kxtefr LFkkusvflra Nūkh x<ē; [ktjkgksbfr ukEuk  
i fl )% v= vfr i kphu f'koefluj vflra v= , d%rMkx%rMkxsHkstu&i =kf.k  
i kl; UrA HkstuUrs i u% foyh; Urs rMkxA

1/4 1/2 , rr~ xdkšoj egknōL; eflnjeA , rr~ egku | k% rVs fufežeA eānj i fj I js  
HkXuko' kškk% eirž % fojktUrA ršq cq) % uVjkt% f'ko% ojkg% x: M% ukjk; .k%

efg"kkI g%p i æ[kkA i dsk}kjsf'koyhyk erz %fojktUrA r=δ jko.kL; xnHked[k; Dprk  
efir%vfi vflrA

¼ ½ ; fLeu~n'sks ^ekr'nōks Hko\*\* bfr i fl ) ħ uk; % Lo i fr"BfHk% 'kkyhu vkpkj% ok  
vknj.kh; k HkofUr&i w; k HkofUr rflEUuō n'sks e; k'zhk' khya p R; DRok  
i kP; ku/kkuoċj.ka dRok Hkkjrh; k-n'kz R; DRok LoL; ekuħ egRokdk{kka i jf; rē~  
; Škq ekxŠkq pyfUr rs fufUnrekxkZA

¼n½ vflr , dai fl ) aLFkyacLrj {ks=A o; e-foLer%plūndk&L; ukxod khfHk%fufeir  
ckjI j's vfri kphu f'koefUnjħ ekek&Hkkatk efinja fo'kky x.k'sk eflUnjkn; A  
efinj.kke-uxjfr [; kr%ckjI j'A txnyiċkr~95 fd-eh- vuēkfurnijr% vkdkz  
i n'skL; I hek {ks=s, rn~je.kh; LFkye~orZA

izu 6& fdlgh rhu 'ykdks dk fgluh vuōkn dhft, A  $\frac{1}{4}+3 = 12\frac{1}{2}$   $\frac{1}{K-LA}\frac{1}{2}$

¼n½ I g ukoorħ I gukSHkuDrħ I goh; ħ djokogŠ  
rstfLouko/khreLrqekfof}"kkogA

¼c½ t kM; a f/k; ks gjfr] fl pfr okfpI R; e-  
ekuksufrafn'kfr] i ki ei kdjkfr  
pr%i d kn; fr fn{kq ruksfr dhfrē-  
I RI æfr% dFk; fdau djksfr i q ke~A

¼ ½ ngjpkjh fgi q "kks ykd's Hkofr fufUnr%  
nq[kHkxh p I rra0; kf/krks vYik; ċp p AA  
'ksy&'ksy ueka.kD; ħ ekSDrdau xt&xts  
I Ttuk%ufg I oE] plnuau ou&ousA

¼n½ I jI &I qkskk% fo'o eukKk  
yfyrk â | k je.kh; k A  
verok.kh I ħN'r Hkk"kk  
uō fdy"Vk u p dfBuk A

izu 7& fdlrh rhu 'ykdks dk fgluh vuqkn dhft , &  $\frac{1}{4}+3 = 12\frac{1}{2}$   $\frac{1}{K-LA}\frac{1}{2}$

$\frac{1}{A}\frac{1}{2}$  ; ka eska nox.kk% fi rj' pki k l rs

r; k eke | esk; k vXus! eskkfoua dq A

$\frac{1}{C}\frac{1}{2}$  l jE; ekl k | r qfp= dW/a

unha p rka ekY; korha l qhFkkE~A

uuln g"Vks exi f{k t qVka

tgkSp nq[ka i jfoi okl kr-AA

$\frac{1}{A}\frac{1}{2}$  mn; esu fg fl /; flur] dk; kF.k ua eukj Fk%

u fg l qRL; fl gL; i fo' kflur eq[ks exk% A

$\frac{1}{n}\frac{1}{2}$  ; Fkk&; Fkk fg i q "k% 'kkL=a l ekZkxPNfr A

rFkk&rFkk fotkukfr] foKkua pL; jkprS A

izu 8& fdlgh rhu 'ykdks dk fgluh vuqkn dhft , A  $\frac{1}{K-LA}\frac{1}{2}$

$\frac{1}{A}\frac{1}{2}$  fo | kapkfo | kap ; Lr }nkkk; a l gA

vfo | ; k eR; q rhRokZ fo | ; k ere' uqAA

$\frac{1}{C}\frac{1}{2}$  e; juknkfhkj rks x t jk t fu"ksor%A

xE; rka Hkork 'kSykf' p=dW% l foJr%A

$\frac{1}{A}\frac{1}{2}$  i'; ntski ek.kkfu yEoekukfu y{e.kA

e/kfu e/kqkfj fhk% l EHkrkfu uxs uxAA

$\frac{1}{n}\frac{1}{2}$  , "k Øks kfr uR; qLraf'k[kh i frdntfrA

je.kh; soukns ks i qi l lrj l dVAA

izu 9& fdlgh rhu 'ykdks dk fgluh vuqkn dhft , A  $\frac{1}{K-LA}\frac{1}{2}$

$\frac{1}{A}\frac{1}{2}$  ol qol qand] d] pk.kj enZueA

nodhi jekun] d".kolns txnxq eAA

¼½ iq; L; QyfePNfUr iq; auPNfUr ekuokAA  
QyaikiL; uPNfUr ikiadpZUr ; RurAA

¼ ½ i kJH; rsu [kyqfo?uHk; su uhpAA  
i kJH; fo?ufofgrk fojefUr e/; kAA  
fo?u%i% i% i% jfi ifrgU; ekukA  
i kJH; pksketuk u ifjR; tfUrAA

¼½ ; L; kfLr foUka I uj% dyhuAA  
I if.Mr% I JqokUxqkKAA  
I ,o oDrk I p n'kZu; %  
I ožxqkk% dk¥puekJ; fUrAA

izu 10& fdUgh rhu 'ykdks dk fglUrh vuþkn dhft , A

¼K-LA½

¼½ I R; kurk p i : "kk fiz okfnuh p  
fgd k n; kyqfi pkFkã jk onkU; kA  
fuR; 0; ; k i pj fuR; /kukxek p  
ojk³uo ui uhrjud: i kAA

¼½ dq {ks=&I ejk¥x.k&xhrk  
fo'oofUrnk HkxonxhrkA  
vere/kjk dehfifi dk  
uð foru"Vk u p dfBukAA

¼ ½ I R; æ kFriz acw kUu cw kRi R; efi z eA  
fiz ap ukuàracw knSk%/ke% I ukruAA

¼½ Jqok Li "Vok p n"Vok p HkqRok /kRok p ; ksujAA  
u n"; fr Xyk; fr ok I foKs ksft ršUnz; AA



izu 11& fdlugh rhu 'ykdks dk fglnh vuqkn dhft, A 1/2K-LA1/2

1/2 1 eFkz df"kd; kz ykd kuka fgr dKE; ; kA

vl eFkz fg d"kdks fhk{kka i klukfr ekuo%A

1/2 ukfjdsy l ekdkj n' ; Urs fg l Ttuk%A

vu; sonfjdkdkj] cfgjo eukgjk%A

1/2 i jk{ks dk; Z glrkj} i R; {ks fi z okfnueA

otz Rrkn' kafe=] fo"kdHka i ; keq[keAA

izu 12& viuh l ddr i kB; i qrd l sdBLFk l Hkkf"kr , oaufr'ykd fyf[k; s \ 1/2K-LA1/2

$$\frac{1}{3} + 3 = 6\frac{1}{2}$$

izu 13& fdlugh i kp izuka ds mukj l dNr ea fyf[k, & 1/4 x 5 = 5 1/2 1/2K-LA1/2

1- f'k"; % da ueLdjkr \

2- vga dL; nkl ks fLeA

3- esfpuk% dfLeu~y; % Hkorq \

4- ^, = tho% r= f'ko%\* bfr eU=L; l k/kd% d% vkl hr~\

5- Lokeh vkRekulnL; ekr% uke fde~vflr \

6- foodkuln vkJe% dL; ddn% vflr \

izu 14& fdlugh i kp izuka ds mukj l dNr ea fyf[k, & 1/2K-LA1/2

1- dL; nku'khyrka i jhf{krq 'kØ% vkxr% \

2- d% i frdntfr \

3- ds ckyk% 'kkkUrs ; 'k% yHkUrs p \

4- ^xq \*\* bfr 'kCnL; d% vFk% \

5- ^f'k{k d&fnol %\* dL; egki q "kL; LeR; ke~vk; kT; rs \

6- ohjk<sup>3</sup>xuk y{ehckbz dsu l g ; q) e~vdjkr~\

- izu 15& fdlugh ikp izuka dsmùkj I ùÑr eafyf[k, & ½K-LA½
- 1- dsu ghuaopua u nhl; rs \
  - 2- dsu ghu% i q "kks t?kU; % \
  - 3- dsu ghue-l eua u 'kkkrs \
  - 4- dsu foghua onua u Hkkfr \
  - 5- ^c) pfjre~ dsu vkjC/ke-\
  - 6- cge I ektL; I ùFkki d% d% vkl hr-\
- izu 16& fdlugh ikp izuka dsmùkj I ùÑr eafyf[k, & ½K-LA½
- 1- I Ri q "kk% dh n' kk% HkofUr \
  - 2- mùket uk% dh n' kk% HkofUr \
  - 3- foùkL; efgek fy[krq \
  - 4- egkHkkj ra xùFka dsu fojfp re~vflr \
  - 5- ^ukjh ukjk; .kh Hkofr~\*\* bfr mfdR% d'skke~vflr \
  - 6- ykds d% i q "k% fufUnr% Hkofr
- izu 17& fdlugh ikp izuka dsmùkj I ùÑr eafyf[k, & ½K-LA½
- 1- vkRe; kth dFka i'; fr \
  - 2- dk; kř.k dsu fl ); flUr \
  - 3- mùkek 'kkfUr% dk \
  - 4- dL; vkxeusu jk; ij uxj% ifjiur% vHkor-\
  - 5- d'skq vuFkk% cgyh HkofUr \
  - 6- jko.kL; xnBk efir% dē vflr \
- izu 18& fdlugh ikp izuka dsmùkj I ùÑr eafyf[k, & ½K-LA½
- 1- xhrk rRo fpUr ua dsu fyf[kre-\

2- I hr; k I g d%fopjfrLe \

3- ekuok% dL; QyabPNfUr \

4- ukxlik 'kkL=h d%vkl hr~\

5- nkua dfrfo/ke~\

6- fde~ioãvkl UuaorTs \

izu 19& fdUgh i kp izuka ds mùkj I ãÑr eafyf[k, &

½K-LA½

1- rgyñn% dL; uke vkl hr~\

2- U; xksk% dē fLFkr% \

3- vga dhñ' ka Ñ".ka oUrs \

4- /khja d% foyksd; fr \

5- nørk dē jellrs \

6- /keL; enya fde~\

izu 20& fdUgh i kp izuka ds mùkj fgUñh eafyf[k, &

½K-LA½

1- fo}ku d; k vere~v' uqrs \

2- foodkulln fo | ki hB% dsu LFkfi r% \

3- jktk i hr; k ; kpdk; fde~l efi ñroku~\

4- y{ehckbz d; k% fui qkk vkl hr~\

5- fo | k foghu% uj% dhñ' k% Hkofr% \

6- dhñ' ka Hkkstua 'yškek.ka i fjgkl ; fr \

izu 21& fdUgh i kp izuka ds mùkj fgUñh eafyf[k, &

½K-LA½

1- I dya cgek. Ma fda KkRok 0; kdya tkre~\

2- y{ehckbz dhñ' kh I sukuf; dk vkl hr~\

3- Hkkjro"kl; I eñuR; SdL; vko'; drk \

- 4- eksu% dsu jksk i hfMf% \
- 5- fl U?ky% jkT; a i k; dFka u v; PNr~\
- 6- Hkkjenø% d fLFkr% \
- izu 22& fdUgh i kp iz uka ds mUkj fgUlh ea fyf[k, & 1/2K-LA1/2
- 1- d% Hkkj% vLekda l o kka Ldu/k; k% fufgr% vflr \
- 2- dl; l ldr i hfr% vLekda xoã tu; fr \
- 3- ^HkkstL; jkT; &ykHk\*\* uke i kBs fda f' k{kka yH; rs \
- 4- i fFKO; ka l o kkuok% dH; % f' k{kj u~\
- 5- /keL; n' kda y{k. ka fy [krq \
- 6- d kka; 'k% dk; s t jkej .k ta Hk; a ukflr \
- izu 23& fdUgh i kp iz uka ds mUkj fgUlh ea fyf[k, & 1/2K-LA1/2
- 1- fpUrk&fpr; k% e/; s dk xjh; l h \
- 2- jktk 1/2 eã t% HkkkS dFka i i kr~\
- 3- i hr% 'kØ% fda oje~vnnkr~\
- 4- dh n' k; jkek; ue% \
- 5- l ldr Hkk"kk dh n' kh vflr \
- 6- Lokh vkRekuUn% dh n' k% oDrk ys[kd% p vkl hr~\
- izu 24& fdUgh i kp iz uka ds mUkj fgUlh ea fyf[k, & 1/2K-LA1/2
- 1- dh n' ka d". ka oUns \
- 2- fo | k; k% efgek fy [krq \
- 3- l Ri q "kk. kka y{k. kku~fy [krq \
- 4- fdeFkẽ~m". ke' uh; kr~\
- 5- fdeFkẽ~fLuX/ke' uh; kr~\

- 6- fdeFkē~ek=kon'uh; kr~\
- 7- vfr nřafdeFkã u v'uh; kr~\
- 8- vfr foyfEcráfdeFkã u v'uh; kr~\
- izu 25& fjDr LFkkuka dh i firZ dhft, ¼dkbz rhu½ ¼1x3 = 3½ ¼K-LA½
- 1- fo |ka ----- v' uřs A
- 2- dk;Z i kjH; ----- fojeflur A
- 3- ukfLr ----- I q[ke~ A
- 4- fo |k ----- xq % A
- izu 26& fjDr LFkkuka dh i firZ dhft, ¼dkbz rhu½ ¼K-LA½
- 1- jked".k fe'ku vkJea n"Vøk tuk%bna ----- dFk; flur A
- 2- ----- xkf/ku% ckyd I [kk] Hkē.k I gk; d'p vkl hr~A
- 3- ykōs ----- nkua nřdjed A
- 4- vkYL; a fg eutř; k.kka 'kj hj LFkks egku~ ----- A
- izu 27& fjDr LFkkuka dh i firZ dhft, ¼dkbz rhu½ ¼K-LA½
- 1- Hkkjrh; ukjh 'k=k% i ģr% ----- u djksr A
- 2- d% Hkkj% -----
- 3- vki Rl q vfi ----- u R; kT; e~A
- 4- ----- vuFkk% cgyh Hkoflur A
- izu 28& fjDr LFkkuka dh i firZ dhft, dkbz rhu ¼K-LA½
- 1- u ----- v'uh; kr} u ----- v'uh; krA
- 2- ----- nřks rFkSV ----- v'uh; krA
- 3- vtYiu] vgl u~rleuk ----- A
- 4- Hkkjens% NŪkhl x<+----- bfr ukEuk ifl ) A

izu 29&	fjDr LFkkuka dh i firZ dhft , dkbZ rhu		¼K-LA½
1-	Mfduh&'kfi[kuh l æe LFkys ----- n0; k% eflUnje~ vflrA		
2-	fl j i j L; i kphu uke ----- vflrA		
3-	l R; uke l ektL; rhFkLFkyh ----- vflrA		
4-	fl j i j k&l o* ifro"KZ ----- frFkKS Hkofr A		
izu 30&	fjDr LFkkuka dh i firZ dhft , dkbZ rhu		¼K-LA½
1-	df"K% ----- Hkor~ A		
2-	vl eFkk& fg d"kdks ----- i kluk&r A		
3-	n0kl j euf; k'p l o&p ----- mi thfou%A		
4-	ukfLr ekr l eks ----- A		
izu 31&	fjDr LFkkuka dh i firZ dhft , ½dkbZ rhu½		¼K-LA½
1-	cāl ektL; l LFkki d% ----- vkl hr~ A		
2-	ukxli 'kkL=h d.kk&/dh; k ----- x&khja Kkua vkl hr~ A		
3-	nkue~ ----- fo/keA		
4-	bZoj% l o&kkirkuke* bfr ----- opukrA		
5-	bZoj% ----- ol frA		
6-	egrka pfj=foHkur; % ----- HkofrA		
izu 32&	l R; e@vl R; e~fyf[k; s \	¼l x4 = 4½	¼K-LA½
1-	m".ke'uh; krA	¼ R; e½	
2-	vth.k&v'uh; krA	¼vl R; e½	
3-	fLuX/ke~v'uh; krA	¼ R; e½	
4-	tYiu~v'uh; krA	¼vl R; e½	
izu 33&	l gh fodYi dks p&udj fyf[k; s \	¼l R; d ea1 vd½	¼K-LA½

$\frac{1}{4}\frac{1}{2}$  ekuok% bPNfUr &  
 $\frac{1}{4}\frac{1}{2}$  ikiL; Qye-  $\frac{1}{4}\frac{1}{2}$  iq; L; Qye-  
 $\frac{1}{4}$   $\frac{1}{2}$  deZQye-  $\frac{1}{4}\frac{1}{2}$  HkkX; L; Qye-  
 $\frac{1}{2}\frac{1}{2}$  vEcMd'o; L; egrh : fp% vkl hr~&  
 $\frac{1}{4}\frac{1}{2}$  jktuhrkS  $\frac{1}{4}\frac{1}{2}$  Hkko. kš  
 $\frac{1}{4}$   $\frac{1}{2}$  l ddrs  $\frac{1}{4}\frac{1}{2}$  Jo. k%  
 $\frac{1}{3}\frac{1}{2}$  bl oj% ol fr &  
 $\frac{1}{4}\frac{1}{2}$  eflnjs  $\frac{1}{4}\frac{1}{2}$  Loxš  
 $\frac{1}{4}$   $\frac{1}{2}$  l oškq tuškq  $\frac{1}{4}\frac{1}{2}$  i frek; ke-  
izu 34& fuEufyf[kr izuka dk mÜkj , d in eafyf[k; &  $\frac{1}{4}$  R; d ea1 vd $\frac{1}{2}$   $\frac{1}{4}$ K-LA $\frac{1}{2}$   
 $\frac{1}{4}\frac{1}{2}$  ui ulfr Hkofr \  $\frac{1}{4}$   
 $\frac{1}{2}\frac{1}{2}$  ekgu% i hfMf% vkl hr~\  $\frac{1}{4}$   
 $\frac{1}{3}\frac{1}{2}$  bflnz kf.k n<hdjkr \  $\frac{1}{4}$   
 $\frac{1}{4}\frac{1}{2}$  jkek; .kL; jpf; rk vflr \  $\frac{1}{4}$   
izu 35& mfpr l ECU/k tkfM+s\  $\frac{1}{4}$ dkbz rhu $\frac{1}{2}$   $\frac{1}{4}$ x3 = 3 $\frac{1}{2}$   $\frac{1}{4}$ K-LA $\frac{1}{2}$   
 $\frac{1}{4}\frac{1}{2}$  fo | k nnkfr & ik=rke-  
fou; kn~; kfr & /kue-  
ik=Rokn- & /ke%  
/kukn- & fou; e-  
 $\frac{1}{2}\frac{1}{2}$  jke% & d.k%  
egknkuh & Hkhe%  
jktk & n'kjFkh  
egkcy% & ; q/kf"BJ%

1/3 1/2	vUr%jan   kr~	&	ekr%
	egkul an   kr~	&	fi r%
	xkSkqn   kr~	&	LoeD
	df"kaotzr~	&	vkRel ee~
1/4 1/2	NÜkhl x<Ł; [ktgkgk&		jkfte%
	i pe-dfHk esyk	&	uxi gk
	xqr iz kx	&	Hkkj enD
	i k'oŁkFKL; i frek	&	f'kojhukjk; .k
1/5 1/2	Jh i g%	&	jkfte%
	NÜkhl x<Ł; [ktgkgk&		tyi i krkS
	rjhFkx<% p fp=dkv/% p&		ek?ki f. kžkž ke~
	fl j i g k R l o%	&	jkfte%
1/6 1/2	i Fkee~	&	i 'kq i kSk. ke~
	f}rh; a	&	jktl oue~
	rrh; e~	&	okf.kT; e~
	prfke~	&	df"ke~
1/7 1/2	vth. kž okfj	&	HkSk te~
	th. kž okfj	&	fo"ki ne~
	Hkkst us okfj	&	vere~
	Hkkst ukUr okfj	&	cyine~
1/8 1/2	je.kh; dFkk	&	Hkxor xhrk
	i q; dFkk	&	jkek; .ke~
	fo'oofUnrk	&	I Ľd'r Hkk"kk



ve`rok.kh & egkHkkjre~

- izu 36& fuEufyf[kr I fDr; ka dk vFkZ fyf[k, & %dkbz 4½ ¼ R; d ea1 vd½ ½K-LA½
- 1- fo | k jktI qi ftrk] u rq/kueA
  - 2- I RI æfr% dFk; fdau djkr i d keA
  - 3- i kjH; pksketuk% u ifjR; t flrA
  - 4- u [kyqo; Lrst I ksgr%A
  - 5- I ož xqkk% dk ¥puekJ; flrA
  - 6- okjk³ xuo ui uhrjud: i kA
  - 7- fo"kdHka i ; keq[keA
  - 8- ; nUua Hk{k; sUuR; a tk; rs rkn' kh iztkA
  - 9- nkuafg I k/kua i jeA
  - 10- vfgd s{k I d[kkogkA
  - 11- fprk ngfr fut h} fplrk p d I thodkeA
  - 12- {k; e-vk; kfr I ¥p; krA
  - 13- g r ap nUkap I n d fr"BfrA
  - 14- e f k L ; ukLR; kSk/keA
  - 15- fg raeukgkfj p ngyHka op%A
  - 16- ekuks fg egrka /kueA
  - 17- fo | kffkz% d r % I d[ke~\
  - 18- I kja xg.kflr i f.Mrk%A
  - 19- ; = tho% r= f'ko%A
  - 20- fu/kkurka ; kfr fg nh; ekueA
  - 21- vnh; ekuafu/ku d fu"BeA

- 22- I l dfr%I l dfr%JrkA
- 23- vkyL; a fg eut; k. kka 'kj hj LFkks egku~fj i
- 24- mfUk"Br tkxr ikl; ojkfluclkskrA
- 25- I RI <sup>3</sup>xfr% dFk; fdau djksr i d keA
- 26- i kjH; rsu [kyqfo?uHk; su uhpSA
- 27- i kjH; fo/ufofgrk fojeflur e/; kSA
- 28- i kjH; pksketuk%u ifjR; tflurA
- 29- fo | kfoghu% i 'kSA
- 30- I ož xqkk% dk puekJ; flurA
- 31- fNanšouFkk% cgyh HkoflurA
- 32- uk; Lrq i v; Urs; = jellrs r= nørkA
- 33- d q ks tk; r~Dofpnfi d ekrk u HkofrA
- 34- nøkl g eut; k'p I ož pkluki thfouSA
- 35- vl eFkkž fg d"kdks fHk{kka i klukfr ekuoSA
- 36- dkyksl; xh Hkor; =A
- 37- df" k% dke n dkk HkorA
- 38- m | eu fg fl ) ; flur dk; kž. k u eukj FkSA
- 39- ; nUua Hk{k; flur; a tk; rs rkn' kh iztka

izu 37& viuh I l dr i kB; & i l rd I sd. BLFk fdUgha pkj I flDr; ka dksfy [kdj mudk  
vFkZ Hkh fyf[k, A  $\frac{1}{4} R$ ; d ea1 vd  $\frac{1}{2}$   $\frac{1}{K-LA} \frac{1}{2}$

izu 38& viuh i kB; i l rd I s d kbZ nks I kkkf"kr 'ykd fyf[k, tks bl izu i = ea u  
vk; sgka A  $\frac{1}{8} + 3 = 6 \frac{1}{2}$   $\frac{1}{K-LA} \frac{1}{2}$

izu 39& 'ykd i flrZ dhft, &  $\frac{1}{4} dk bZ 3 \frac{1}{2}$   $\frac{1}{4} \times 3 = 3 \frac{1}{2}$

$\frac{1}{4} \frac{1}{2}$  vth. kž Hkškt a okfj -----

	----- fo"k ine~ A		
1/4 1/2	fo   k nnkfr fou; a -----		
	----- ik=rke~ A		
1/4 1/2	/kfr% {kek -----		
	----- /keʒy{k.ke~ A		
1/4 1/2	xq cʒek -----		
	----- xjɔue % A		
izu 27&	viuh ikB; i tʀd dBLFk pkj I fDr; kafyf[k, A	1/4 x4 = 4 1/2	1/4K-LA 1/2
izu 28&	fuEufyf[kr I fDr; ka dk fglnh vuɔkn dhft, A	1/4 x4 = 4 1/2	1/4K-LA 1/2
1-	I R; sɪ ghuaopuaɪ nhl; rsA		
2-	/kukr~/ke%rr% I q[ke~A		
3-	ek df' pr~fof}"kkogSA		
4-	Hkkst us pker ɔkfj Hkkst ukUrs fo"ki ne~		
izu 29&	fuEukfdr Hkkoka dks 0; Dr djus okyh I fDr; kafyf[k, & 1/4dkbz 4 1/2	1/4 x4 = 4 1/2	1/4K-LA 1/2
1-	ifjJe I s dk; Zfl ) gksrs gS		
2-	I Ttu ukfj; y ds I eku fn[kkbZ nrsrs gS		
3-	nqVtu nqVrk djrsrs Qy I Ttu Hkksrsrs gS		
4-	tgklltho gS ogk; f'ko gS		
5-	I Hkh uhjksch gkq		
izu 31&	mfpr foHkfDR; ka ds iz ksx I sfjDr LFkkuka dh i firZ dhft, 1/4dkbz rhu 1/2	1/4 x3 = 3 1/2	1/4K-LA 1/2
1-	cgqtUekftʀ i q; Qy% ----- jk tk chkw 1/4' kfo 1/2		
2-	vga ----- vkxrksfle 1/4o   ky; 1/2		
3-	jkftes ipe dñHkār esyk ----- Hkofr 1/4ek?kekl 1/2		
4-	ekl kUrs ----- ee uke dfrʒ; fr 1/4d{kki fʀtdk 1/2		

izu 16&	mfpr l cdk tkfM+ &	¼dkbZrhu½	¼1 x3 = 3½	¼K-LA½
1-	uhpS	1- l e; %		
2-	vf/kd eY; oku~	2- i kjH; rsA		
3-	Ñf"koY%	3- [kxksy' kkl=e~		
4-	dkyx.kuk	4- /kkl; o) ; %		
		5- fooknk;		

izu 17&	[k.M d dks [k.M [k l sey dhft, &	¼dkbZrhu½	¼1 x3 = 3½	¼K-LA½
	d	[k		
1-	'kSys & 'kSys	1- oupnue~		
2-	jkekjktef.k%	2- u ekf.kD; e~		
3-	ou&ous	3- l nkfo t; rsA		
4-	?ku' ; ke%	4- deZkkj ;		

&&00&&

# ifjfk"V

## KkukRed izu (Knowlede Based Question)

- izu 1& I f/k dh ifjHkk"kk fyf[k; sA
- izu 2& r~ds vkxs y~yxkus ij r~ds LFkku ij D; k ifjorZu gkrk gS\
- izu 3& t'Ro 0; U´u I f/k fdl sdgrsgS\
- izu 4& I f; k dks 'kCnka ea fyf[k, & 69] 78
- izu 5& xks dk I Ireh cgppu fyf[k; sA
- izu 6& okP; ifjorZu I sD; k I e>rs gk fyf[k; sA
- izu 7& deZkkj; I ekl dh D; k fo'kSkrrk gS\
- izu 8& }a} I ekl fdl sdgrsgS\
- izu 9& vi us ikpk; Z dks pfj= iek.k i= grqvkonu fyf[k, A
- izu 10& ^I jLorh fo |k; k% norka\* fo"k; ij fucdk fyf[k; sA
- izu 11& vuqNn dk mfpr 'kh"kd nhft, A
- izu 12& viuh ikB; iqr d I snks I Hkkf"kr 'ykd fyf[k; sA
- izu 13& viuh ikB; iqr d I s4 I fDr; k/fyf[k; sA
- izu 14& izuka dk mUkj I LÑr eanhft, &
- 1- rgyth% dL; uke vkl hr~\
  - 2- e; yk% r= fde-dpZUr \
- izu 15& izuka ds mUkj fgUrh eanhft, &
- 1- ekuok% dL; QyabPNfUr \
  - 2- ekrk dh n' kh u Hkofr \

## voctsk izu (Understanding Based Question)

izu 1& fuEufyf[kr 'ykdl dk vFkZ fglmh eafyf[k; s &  
xU/kughua l eua u 'kkkkr} nlrfozhua onua u xfr A  
l R; su ghua opuaunhl; r} i q; su ghua i q "kks t?kU; %AA

izu 2& x | kak dk fglmh %ekrHkk"kk e% vFkZ fyf[k, &  
jk; ij ftyk; ke-fp=kRi yk xak %egkunt% l ka-y] i j hfr =; k.kke-u | ke-  
l xelFkysjk; i jkr-48 fd-eh- njs jkfte uxje-fLFkre-A , rn-NRrhl x<E;  
iz kx%bfr ifl )e-A

izu 3& 'kCn : i fyf[k; s &  
i fFku- & rrrh; k  
u ¾ ipeh

izu 4& fun}kkud kj /kkrq i gpkudj : i fyf[k; s  
; tfr & dk cgppu  
u; kfu & yVydkj e-i q , dopu

izu 5& fjDr LFkku dh i frZ dhft, &  
ekgu i q rda i Bfr] vge- i q rda ----- A  
o{kk~----- i rfr %Qy%

izu 6& o; e-izu cdl; fuezk dq ke%A  
okD; eafde-dk iz kx dj izu cukb; s , oafyf[k; s A

izu 7& 'kCnka ds foHkfDr opu fyf[k; s  
veqk] xk%

izu 8& l %gl fr dk HkkookP; D; k gksk \

izu 9& l ekl foxg dj fyf[k; s &  
vuFk} o{ki fr r% i hrkaj%

izu 10& I f/k foxg dj uke fyf[k; s &

'kkUr-% rFPNo%

izu 11& I kjkák fyf[k; s &

vLekda nš kks xte izkku nš k% vflr A v= xtek.kka l d; k ik; 'k% l lry{k  
i fjferk orZsA nš kL; i fr'krauofr tuk%, "kq, o xteškgfuol flr A vr, o bna  
fuf' praorZs; r-xtek.kke-l etR; k , o Hkkjro"KL; okLrfodh l etufR%Hkfo"; frA

### vfHk0; fDr dksky (Expression Skill)

izu 1& I nkplj fdl I f/k dk ifrfuf/kRo djrk gS\

izu 2& i\$, trsds; kx l scus 'kCn dksfyf[k; sA

izu 3& mi x<sup>3</sup>xe~dk l ekl foxg dhft, A

izu 4& i fFku~dk f}rh; cgøpu fyf[k, A

izu 5& 75 dk i pl l rfr% dgrsgs rks 85 dks l lÑr ea 'kCn ea dS sfy[kæksA

izu 6& nønÜk%foik; /kua; PNfr okD; eafoiz ds LFkku ij fu/kZ 'kCn dk iz kx dj  
okD; fyf[k; sA

izu 7& mi mi l xZdk fn'kfr fØ; k ds l kFk iz kx dj mfpr 'kCn cukb; so fyf[k, A

izu 8& xte \$ ry~iR; ; ¾  gksk A