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Golden Research  
Thoughts

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## Welcome to GRT

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Golden Research Thoughts Journal is a multidisciplinary research journal, published monthly in English, Hindi & Marathi Language. All research papers submitted to the journal will be double - blind peer reviewed referred by members of the editorial board. Readers will include investigator in universities, research institutes government and industry with research interest in the general subjects.

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tutkrh; I ekt ea jktuhfrd tkx: drk ckyk?kkV  
ftys ds fo'k'sk I UnHkz ea , d v/; ; u



I qurk c?ksy

vkbzI h-, I -, I -vkj- MkDVkj y QSyks e- iz I lekftd foKku 'kks'k  
I kFkku mTtSu

Short Profile

Sunita Baghele is a I.C.S.R., Ph.D., Smajik Science Research Sansthan, Ujjain, M.P. She has completed B.A., M.A., M.Phil., Ph.D.



i Lrkouk :

tutkrh; I ekt dk , d cMk Hkx  
viuh tUefLFkr] fu/kLrk] vf' k{kk]  
fyxHkn rFkk mPp dghu oxkz }kj k  
Fkks h xbZ I lekftd eku&e; khkvka ds  
dkj .k {ks= ds uhr fu/kkj .k ds inka  
, oa vf/kdkj ka I s ofpr Fkka ml s  
vkj {k.k ds ek/; e I s bu inka , oa  
vf/kdkj ka dh i kflr gPz gSftl us bu  
ifjorZka dks tle fn; k gA iLrq  
'kks'k i= e/; insk ds ckyk?kkV ftys  
ds tutkrh; ckgY; nks fodkl [k. M]  
cSj rFkk fcj l k dks p; fur fd; k  
x; k gA ; gk tutkrh; fodkl ds  
fy, I lekftd] vkfFkd] jktuhfrd  
Lrj ij vuod dk; Z I jdkjh , oa  
xS & I jdkjh rkSj ij fd; k tk jgk gA  
ftl I s tutkrh; I ekt ea vk; s

i fjoZuka dk v/; ; u] dh egrh vko'; drk gA bu p; fur fodkl [k. Mka I sl okZ/kd tutkrh; tul a; k  
okys ikp&ikp xte p; fur fd; s x; A bl izdkj 10 xteka ea I s iR; ds xte I s 18 tutkrh; xte I Hkk  
I nL; , oa 6 xS & tutkrh; xte I Hkk I nL; ka dks ; knfPNd vk/kkj ij p; fur fd; k x; kA bl izdkj 10  
xteka I s 180 tutkrh; xte I Hkk I nL; , oa 60 xS & tutkrh; xte I Hkk I nL; ka dk p; u v/; ; u grq  
fd; k x; kA vr%fun'kZ dk dgh vkdkj 240 gA

Key Words: tutkrh; I ekt] xS & tutkrh; I ekt] jktuhfrd tkx: drk

### i Lrkouk

0; fDr jktuhfrd oLrqvkā ?kVukvkā fØ; kvka vksj fofHkUu jktuhfrd eq ka ij fdruk vksj fdl  
çdkj dk Kku j [krk gSrFkk ; g Kku fdl ek=k ea l gh ; k xyr gā ; g 0; fDr dh jktuhfrd tkx: drk dks  
Li "V djrk gā jktuhfr dk Kku vksj jktuhfrd I ekthdj .k dk Lrj] jktuhfrd ?kVukvkavksj jktuhfrd  
0; oLFkkvka dh vk/kkj Hkur fo' ks'krvka dsçfr 0; fDr dh cks/kxE; rk 'kkl u 0; oLFkk eaml dh #fp dksçHkkfor  
djrh gā

jktuhfrd tkx: drk dk jktuhfrd I ekthdj .k I sl h/kk I Ecu/k gkrk gS, oajktuhfrd tkudkj h  
jktuhfrd I pkj ij vkfJr gkrh gā fti ek=k ea 0; fDr vius jktuhfrd I j puk ds vk/kkj Hkur rUokā  
egUoiwz jktuhfrd xrfof/k; ka vksj I el; kvka I s voxr gskuk gS ml h ek=k ea og vius jk"Vh;  
jktuhfrd thou ds vR; Ur fudV i gp tkrk gā

0; fDr ds jktuhfrd I ekthdj .k vksj I gHkkfxrk ea vfHkofYk vksj eW; ka dh Hkkfedk vR; f/kd egRoiwz  
gkrh gā ekuoh; 0; ogkj ckgz i fj fLFkr; ka ds i fr 0; fDr dh ; kā=d i frfØ; k ek= ugh gS çfd ; g  
0; ogkj ml ds fo' k+V I kekftd&I kñfrd i fjosk ds i Hkko I s i Hkkfor vksj fu; fu=r Hkh gā jktuhfrd  
thou ea 0; fDr dh : fp vksj I gHkkfxrk jktuhfrd I ãñfr ea 0; klr eW; ka vksj eku; rkvka I s vR; f/kd  
ek=k ea i Hkkfor rFkk funs'kr gkrh gā 0; fDr fofHkUu jktuhfrd eW; kã vkn'kkz vksj eku; rkvka dks vi us  
0; fDr o ea vkrEl kr djrk gSrFkk mudsvuq lk ml dh jktuhfrd vfHkofYk vksj 0; ogkj dk Lo: lk fu/kkZj r  
gkrk gā

jktuhfrd eW; , d , d s I kekftd ekud gS tks 0; fDr ds 0; ogkj ] : fp; kã fopkj ka , oa vUr%Ø; k  
dks i fj Hkkf"kr dj rsgSeW; kads }kj k Lohñr ; k vLohñr 0; ogkj kadh 0; k [ ; k gkrh gā eW; kadh vUrjhdj .k  
I ekthdj .k dsek/; e I sgkrk gS buds }kj k 0; fDr dk; Z; k 0; ogkj dks vi ukus dh vksj i fj r gkrk gS tks  
bl fo'okl dks i frfcEcr dj rsgS dh dkbz fLFkr] n'kk ; k oLrq dh rgyuk ea vi {kkñr vf/kd oj h; rk  
inku dj usds; kã; curk gā

jktuhfrd 0; oLFkk I s I EcfU/kr eW; ka , oa vfHkofUk; ka dk fodkl vksj LFkki uk fofHkUu vfHkdj .kka ds  
vUr%Ø; k dsek/; e I sgkrk gā I keku; r% i fj okj] f' k{k.k I ãFkk; j i Mkd ] , fPNd I ãFkk; j I puk I EçŠk .k  
ds I k/ku] I jdkj ds nco I ewj vksj jktuhfrd ny 0; fDr ds jktuhfrd I ekthdj .k ea çHkkoh Hkkfedk  
fuHkkrs gā blgha I s 0; fDr ds jktuhfrd txr~dsckj s çkj fEHkd i f' k{k.k gkrk gS tks thou i ; Dr i fj ofr  
gkrk jgrk gā

i Lrq v/; ; u ea tutkrh; I ekt ea jktuhfrd tkx: drk I sl çf/kr mYkj nkrkvka I si klr rF; ka  
dk foopu fd; k x; k gā I kFk gh rgyuk dsfy; sxj & tutkrh; I ekt I si klr rF; ka dks Hkh I kFk gh foospr  
fd; k x; k gā

### v/; ; u dk mnns'k

- ❖ LFkkuh; jktuhfr dh i fØ; k dsoržku Lo: i dk v/; ; u dj uk(
- ❖ jktuhfrd I ãFkkvka ds i fr tkx: drk , oal gHkkfxrk dk eW; ka du dj uk(
- ❖ jktuhfrd tkx: drk dsdkj .k I epk; dh fLFkr ea vk; si fj oržka, oai Hkkoka dk vkadyu dj uk(

### v/; ; u dk I exz

i Lrq 'kks'k i = gsrql exz ds: lk eae/; i nsk jkT; ds ckyk?kkV ftysdk p; u fd; k x; k gā ckyk?kkV  
ftyk tutkrh; ckgY; ftyk gS v/; ; u gsrql okZ/kd tutkrh; ckgY; nks fodkl [k.M] çsj rFkk fcj I k

tutkrh; l ekt ea jktuhfrd tkx: drk ckyk?kkV ftys ds fo' ks'k l UnHkZ ea , d v/; ; u

dksp; fur fd; k x; k gÅ bu p; fur nksfodkl [k. Mka l sl okZ/kd tutkrh; tul a; ; k okys i kp&i kp xte p; fur fd; sx; Å bl izdkj nksfodkl [k. Mkaeal sdgy 10 xte dksv/; ; u grqppuk x; kÅ

voykdu dh bdkbz, oafun' kZu dk vkdkj

voykdu dh bdkbz tutkrh; , oa xj tutkrh; xte l Hkk l nL; gÅ xj tutkrh; l nL; ka ds p; u dk dkj .k rnyukRed v/; ; u djuk gÅ av/; ; u grqdy 10 xtekaeal si R; dsxte l s18 tutkrh; xte l Hkk l nL; , oa 6 xj & tutkrh; xte l Hkk l nL; ka dks; knfPNd vk/kkj ij p; fur fd; k x; kÅ bl izdkj 10 xteka l s180 tutkrh; xte l Hkk l nL; , oa 60 xj & tutkrh; xte l Hkk l nL; ka dk p; u v/; ; u grqfd; k x; kÅ vr%fun' kZu dk dy vkdkj 240 gÅ

0; fDr dh jktuhfrd tkx: drk , oaml ij jktuhfrd l pkj ds cks'k dksLi "V djus grqorZeku v/; ; u ea mUkj nkrkvka l sLFkkuh; ] cknf' kd , oaj k"Vh; tkudkfj ; ka l sl EcfU/kr ç' uka dk l ekoš k fd; k x; k gS, oabu ç' uka ds vk/kkj ij mUkj nkrk ds l pkj l k/kuka ds mi ; kx dh çofYk ds vk/kkj ij jktuhfrd l ekthdj .k dksçHkkfor djus okys dkj dka, oajktuhfrd l ekthdj .k ds Lrj dks Kkr fd; k x; k gÅ bl l mHkZ mYkj nkrkvka l sjktuhfrd ppkZ ds l Ecd'k ea tkudkj h i klr dh x; hÅ i klr rF; ka dks l kj .kh dækad 1 ea i nf'kr fd; k x; k gÅ

I kj .kh dækad 1

ifjokj ds l nL; ka ; k nkLrka ds l kFk jktuhfrd eqnka ij ppkZ

Ø l a	jktuhfrd eqnka ij ppkZ	Tkutr h; vkofRr ¼ fr'kr ½	xj Tkutr h; vkofRr ¼ kfr'kr ½
1	geskk	92 ¼ 51-1½	32 ¼ 53-3½
2	dHkh&dHkkj	63 ¼ 35-0½	22 ¼ 36-6½
3	dHkh ugh	25 ¼ 13-9½	6 ¼ 10-0½
	Dgy	180 ¼ 100½	60 ¼ 100½

I kj .kh Øekad 1 l sLi "V gSfd 51-1 çfr'kr tutkrh; mUkj nkrk geskk ifjokj ds l nL; ka ; k nkLrka ds l kFk jktuhfrd eqnka ij ppkZ djrs gÅ 35-0 ifr'kr dHkh&dHkkj ppkZ djrs gÅ , oa 13-9 çfr'kr jktuhfrd eqnka ij dHkh ppkZ ugha djrs gÅ 53-3 çfr'kr xj & tutkrh; mUkj nkrk geskk ifjokj ds l nL; ka ; k nkLrka ds l kFk jktuhfrd eqnka ij ppkZ djrs gÅ 36-6 ifr'kr dHkh&dHkkj ppkZ djrs gÅ , oa 10-0 çfr'kr jktuhfrd eqnka ij dHkh ppkZ ugha djrs gÅ Li "V gSfd tutkrh; mYkj nkrkvka ea vk/ks l svf/kd ifjokj ds l nL; ka vkj nkLrka ds l kFk jktuhfrd eqnka ij geskk ppkZ djrs gÅ , d frgkbZ mYkj nkrk , d sgÅ tks jktuhfrd eqnka ij dHkh&dHkkj ppkZ djrs gÅ jktuhfrd ppkZ ds l mHkZ ea tutkrh; dh fLFkr xj & tutkrh; mYkj nkrkvka ds l eku gh gÅ

fofHkku l æBuka dh l nL; rk

fofHkku l æBuka }kj k l epk; ds vkfFkd fodkl grqñf'k fodkl ] ty l j {k.k} Lo; al gk; rk l egn ds l kFk&l kFk i 'kj kyu] Loj kst xkj çnku djus tS h xrfkof/k; k; l pkfyr dh tk jgh gÅ bu xrfkof/k; ka ds

OyLo: i l enpk; dh vk; eaof) gdpZrFkk f'k{kk} LokLF; ] 'k\$kf.kd Hkæ.k t\$ h xfrfof/k; ka usmuds thou dks i Hkkfor fd; k g\$ vr%bu l xBuka }kj k fd, tk jgsdk; kaes l enpk; dh l gHkkfxrk dks tkuusdk iz, kl fd; k x; k gsft l sl kj .kh Øekad 2 esi nf'kr fd; k x; k g\$

I kj .kh Øekad 2  
fofHkUu l xBu dh l nL; rk

Ø l a	fofHkUu l xBu ds l nL;	Tkutkrh; vkofRr ¼ fr'kr½	x\$ Tkutkrh; vkofRr ¼ fr'kr½
1	/kkfeð l xBu	85 ¼47-2½	25 ¼41-7½
2	[ksydñ ; k eukjat u l Ecalkh l xBu	116 ¼64-4½	23 ¼38-3½
3	dyk l xhr ; k 'k\$kf.kd l xBu	110 ¼61-1½	10 ¼16-7½
4	etnij l xBu	96 ¼53-3½	23 ¼38-3½
5	jktuhfrd i kVhZ	93 ¼51-6½	32 ¼53-3½
6	i ; kbj .k l xBu	75 ¼41-6½	33 ¼55-0½
7	0; ol kf; d@i skoj l xBu	84 ¼46-6½	1 ¼1-7
8	mi HkkDrk l xBu	76 ¼42-2½	19 ¼31-7½
9	Lo; d oh l gk; rk l eñ	77 ¼42-7½	10 ¼16-7½
10	Tkkfrxr l xBu	78 ¼43-3½	24 ¼40-0½

I kj .kh Øekad 2 l sLi "V g\$fd 47-2 i fr'kr Tkutkrh; mYk nkrk /kkfeð l xBu ds l nL; g\$ 64-4 i fr'kr [ksydñ ; k eukjat u l Ecalkh l xBu ds l nL; g\$ 61-1 i fr'kr dyk l xhr ; k 'k\$kf.kd l xBuka dk l nL; g\$ rFkk 53-3 i fr'kr mYk nkrk etnij l xBu , oa tkfrxr l xBu ds l eku : lk l sl nL; g\$ 51-6 i fr'kr mYk nkrk jktuhfrd i kVhZ ds l nL; g\$ 41-6 i fr'kr i ; kbj .k l xBu ds l nL; g\$ 46-6 i fr'kr 0; ol kf; d@i skoj l xBu ds l nL; g\$ 42-2 i fr'kr mi HkkDrk l xBu ds l nL; g\$ 42-7 i fr'kr Lo; d oh l gk; rk l eñ ds l nL; g\$ 43-3 i fr'kr tkfrxr l xBu ds l nL; g\$ tcf d 41-7 i fr'kr x\$ Tkutkrh; mYk nkrk /kkfeð l xBu ds l nL; g\$ 38-3 i fr'kr l eku : lk l s [ksydñ ; k eukjat u l Ecalkh l xBu o etnij l xBu ds l nL; g\$ 16-7 i fr'kr dyk l xhr ; k 'k\$kf.kd l xBuka dk l nL; g\$ 53-3 i fr'kr mYk nkrk jktuhfrd i kVhZ ds l nL; g\$ 55-0 i fr'kr i ; kbj .k l xBu ds l nL; g\$ 1-7 i fr'kr mYk nkrk 0; ol kf; d@i skoj l xBu , oa 31-7 i fr'kr mYk nkrk mi HkkDrk l xBu ds l nL; g\$ 16-7 i fr'kr mYk nkrk Lo; d oh l gk; rk l eñ ds rFkk 40-0 i fr'kr mYk nkrk tkfrxr l xBu ds l nL; g\$ Li "V g\$fd tutkrh; mYk nkrk fdl h u fdl h l xBu ds l nL; g\$ bueadyk l xhr ; k 'k\$kf.kd l xBu] [ksydñ ; k eukjat u l Ecalkh l xBu] etnij l xBu] jktuhfrd i kVhZ , oa /kkfeð l xBu i æ[ k g\$ dgk tk l drk g\$fd tutkrh; l nL; ka ds fofHkUu l xBuka dsek/; e l sl kepkf; d l gHkkfxrk fd l fLfr vPNh g\$

jktuhfrd usRo ds i fr tkx: drk

jktuhfr tkx: drk ds l mHkZ ea fofHkUu jktuhfrd xfrfof/k; ka , oa jktuhfrd usRo ds ckj s ea mYk nkrk fdl çdkj dk Kku j [krs g\$ ; g tkuusdk iz, kl fd; k x; kA mYk nkrk vka l s muds LFkkuh; ] uxjh; ] çknf'kd] jk"Vh; 'kkl u r=a l s l Ecfu/kr tkudkj h yh x; h i klr rF; ka dks l kj .kh Øekad 3 ea

oxhÑr fd; k x; k gð

I kj.kh Øekad 3  
i nkf/kdkfj ; ka ds ckjs ea tkudkj h

Ø l a	i nkf/kdkfj ; ka ds ckjs ea tkudkj h	Tkutkrh; vkofRr ¼i fr'kr½	x§ Tkutkrh; vkofRr ¼i fr'kr½
1	okMZ ds ip dk uke tkursgð\	92 ½51-1½	51 ½85-0½
2	fo/kk; d dk uke tkuragð\	98 ½54-4½	41 ½68-3½
3	fo/kk; d fdl i kVhZ ds gð\	98 ½54-4½	39 ½65-0½
4	orðku jkT; iky dk uke tkursgð	120 ½66-6½	38 ½63-3½
5	orðku e[; ea-h dk uke tkursgð	126 ½70-0½	49 ½81-7½
6	orðku izkkuea-h dk uke tkursgð	128 ½71-1½	47 ½78-3½
7	orðku jk"Vfr dk uke tkursgð\	87 ½48-3½	51 ½85-0½
8	yksdl Hkk v/; {k dksu gð	73 ½40-5½	41 ½68-3½
9	yksdl Hkk ea vud fipr tutkfr ds fdrus l nL; gð\	58 ½32-2½	25 ½41-6½
10	e/; insk fo/kkul Hkk ea vud fipr tutkfr ds fdrus l nL; gð	100 ½55-5½	36 ½60-0½

I kj.kh Øekad 3 l sLi"V gSfd 51-1 ifr'kr tutkrh; mYkj nkrk okMZ ds ip ds uke] 54-4 ifr'kr mYkj nkrk l eku : lk l sfo/kk; d dk uke , oaml dh i kVhZ ds ckjs ea tkuragð 70-0 ifr'kr orðku e[; ea-h , oa 71-1 ifr'kr izkkuea-h ds uke tkursgð 48-3 ifr'kr mYkj nkrk orðku jk"Vfr ds uke tkursgð 40-5 ifr'kr ykx ykdl Hkk v/; {k ds uke tkursgð rFkk 55-5 ifr'kr mYkj nkrk dks e/; insk fo/kkul Hkk ea vud fipr tutkfr ds l nL; ka dh tkudkj h gð , oa 32-2 ifr'kr mYkj nkrk dks ykdl Hkk ea vud fipr tutkfr l nL; dh tkudkj h gS tcf d 85-0 ifr'kr x§ & tutkrh; mYkj nkrk l eku : lk l sokMZ ds ip ds uke , oa orðku jk"Vfr dk uke tkursgð 65-0 ifr'kr fo/kk; d fdl i kVhZ ds gð , oa 68-3 fo/kk; d dk uke tkuragð 81-7 ifr'kr orðku e[; ea-h] 78-3 ifr'kr izkkuea-h ds uke tkursgð 63-3 ifr'kr jkT; iky ds uke tkuragð 60-0 ifr'kr mYkj nkrk dks e/; insk fo/kkul Hkk ea vud fipr tutkfr ds l nL; dh tkudkj h gð 41-6 ifr'kr mYkj nkrk dks ykdl Hkk ea vud fipr tutkfr l nL; dh tkudkj h gð Li"V gSfd fofHku jktuhfrd usRo tkudkj h ds l anHkZ ea tutkrh; mYkj nkrk vka dks insk ds e[; ea-h] izkkuea-h] jkT; iky] LFkkuh; fo/kk; d vkfn ds ckjs ea tkudkj h gð tkudkj h ds Lrj dh x§ & tutkrh; mYkj nkrk vka ea rgyuk d jusij ; g Lrj mudscjkcj rksugh yfdu FkkMk Bhd gð

fu"d"kk% dgk tk l drk gSfd tutkrh; l epk; ka dk vkfFkZd] l kekftd] jktuhfrd , oal kd dfrd fodkl fnuk&fnu c<+jgk gð l kfk gh l kfk bl l epk; dh jktuhfrd l txrk ea vfhkfof) gksjgh gð i gys dh vi\$kk bl l epk; dk jgu&l gu] [kku&iku] vk\$ vius l epk; dh l kekftd] vkfFkZd] jktuhfrd l eL; vka ds ifr vR; Ur l tx vk\$ tkx: d gð ; g tkx: drk mudh jktuhfrd l ghkkfxxrk dk , d egROI wki j d rRo gð l \$ki ea vk/kfud tutkrh; l epk; ea ifrfuf/RRo , oa usRo dh Hkkouk Øe'k% l 'kDr gksjgh gSft l s ; g l epk; 'kDr'kkyh cu jgk gS rFkk QyLo: lk bl l epk; dh jktuhfrd

tutkrh; I ekt eajktuhfrd tkx: drk ckyk?kkV ftys ds fo' k'sk I UnHkZ ea , d v/; ; u

I ekthdj .k dh i fØ; k eamYkj kYkj vfHkof) gksjgh g&

tutkrh; I ekt eajktuhfrd I ekthdj .k dh i fØ; k ea of) dks vksj vf/kd i Hkkoh cukus grq v/; ; u dsvk/kkj ij dN I pko bl idkj g&

? tutkrh; I ekt dksf'kf{kr cukrsgq ] mlgs; kstuk dsdk; Øeka, oa i ko/kkuka I ECU/kh i wkZ tkudkj h inku dh tk, A bl grq tutkrh; xteka ea tu&f'k{k.k ds dk; Øe] tkx: drk@i f'k{k.k dk; Zkkyk dk vk; kst u rFkk vU; ipkj dsek/; eka }kj k ; kstuk dk 0; ki d ipkj fd; k tk, A

? fodkl ; kstuk ds vUrxZr vf/kdkf/kd jkstxkj i j d dk; Øeka dks I fEefyr fd; k tk, A bl LkUnHkZea I klrkfgd@nsud cktkj kj gkVkj I Md dsfdukj j pkj kgsrFkk xte I Ei dzekXkZ }kj k e[; ekxZ dks tkMk tk, , oamUgsdkbZ0; ol k; i kj EHk djuseal gk; rk dh tk, bl I stutkrh; I ekt ds vkfFKZd thou eal qkkj Hkh gksxk rFkk mudsthou eavkRefuHkj rk Hkh c<schA

? tutkrh; {ks=ks ea i pk; r i frfuf/k; ka dks 'kkL u }kj k xte i pk; r vksj xtel Hkk dh 'kfDr; ka , oa vf/kdkj ka I stx: d djusdsfy, i f'k{k.k f'kfoj yxk, tk, A

tutkrh; I ekt eajktuhfrd I ekthdj .k ds I mHkZea i fjokj] f'k{k.k I hFkk, U I pkj ds I k/ku] jktuhfrd ny] xj & I jdkj h I xBu] I jdkj dh vU; ; kstukvka dk egRo i wkZ LFkku jgk g& rFkfi tutkrh; {ks=ka ea bu I k/kuka dk i Hkko o tu&I gHkfxrk ea deh , d udkj kRed rRo ds : lk eafo | keku jgk g& vr% ; g vko' ; d gsfdr .key Lrj ij tutkrh; I epk; dksmfpr vol j i klr gksrHkh bl I ekt eajktuhfrd I ekthdj .k dh i fØ; k ea of) gksI drh g&

## I UnHkZ

1.xuk] I h ch ¼2008¼ rnyukRed jktuhfr] fodkl i fcyf'kak gkml i k-fy- ukS Mk ¼; w i h-¼A

2./kebhj] MKW ¼2008¼ jktuhfrd I ekt'kkL=] jktLFkku fgUnh xBFk vdkneh] t; i j A

3.[ks=i ky] ch I h ¼2010¼ e/; i nsk i pk; r jkt , oaxte Lojkt vf/kfu; e 1993] [ks=i ky i fcyds kUI ] blUnkS A

4.jkel; kj j ¼1991¼ gfj tu ; pdkajktuhfrd I ekthdj .k] fery i fcyds kUI ]ubzfnYyh A

5.I I ksn; k] ; rUnfI g , o HkVV vk'kh" k ¼2011¼ e/; i nsk ea i pk; r jkt 0; oLFk % fofo/k vk; ke] e- i z fgUnh xBFk vdkneh] Hkks i kyA

6.HkVV] vk'kh" k ¼2002¼ ykdrkfU=d fodUnhdj.k , oa mHkjr tutkrh; urRo] jkor i fcyds kUI ]t; i j A

7.xlrk] eatw¼2003¼ tutkfr; kadk I kekftd] vkfFKZd mFkku] vtju i fcyf'kak gkml ] ubzfnYyh A



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