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Ubale Amol Baban

PEER-REVIEWED INTERNATIONAL JOURNAL



[Editorial/Head Office: 108, Gokuldham Society, Dr.Ambedkar chowk, Near
TV Towar,Badlapur, MSief



i kFkfed Lrj ij l jdkjh , oa xj & l jdkjh fo | ky; ka dh Jj'Brk ea l gk; d
dkj dka dk yadkui g e. My ds fo' ks'k l UnHkZ edz ryukRed v/ ; ; u

Education

v' kksd dekj
vfl LVWV i kQs j

chO, MO foHkx] MKD thoi hovkjOMho i Vsy egkfo | ky;] vjksy] dkui g uxj

I kj ka k

i Lrj 'kksk v/ ; ; u ea 'kkskdrkZ jkjk "i kFkfed Lrj ij l jdkjh , oa xj & l jdkjh
fo | ky; ka dh Jj'Brk ea l gk; d dkj dka dk ryukRed v/ ; ; u fd; k x; k gJ ft l ea dkui g
e. My ds 120 l jdkjh i kFkfed fo | ky; , oa 120 xj & l jdkjh i kFkfed fo | ky; dty 240
Jj'B i kFkfed fo | ky; p; fur fd; js bu fo | ky; ka l s l EcflUkr 2500 mRrjnkrkvla ds jkjk
nF"Vdksk eki u grq LofufeT i l ukoyth] erkoyth] nRr l adyu i = ds jkjk i ktr vkadMka ds
fo'ysk. k grq Økflrd vujkr $\frac{1}{2}x^2$ dk iz kx fd; k x; k gJ rnkj jklr ed; fu"d"lz bl
izdkj gJ $\frac{1}{2}x^2$ l jdkjh i kFkfed fo | ky; ka dh vi s k xj & l jdkjh i kFkfed fo | ky; ka ea
voLFki uk l fo/kk; j f'k{k'd Nk= vujkr] xqkoRrk; Ør ; kst uk; j [kydln dh l fo/kk; j
i jh{kQy] 'k{k'd okrkoj. k] Hkk"kk rFkk xf. krh; fodkl] l okkxh. k fodkl] Nk= mi fLFkr]
dk; Zfnol ka dh l q; k Jj'B i k; h x; hA $\frac{1}{2}x^2$ & l jdkjh i kFkfed fo | ky; ka dh vi s k l jdkjh
i kFkfed fo | ky; ka ea f'k{k'd ; kx; rk] Nk= ukeddu $\frac{1}{2}x^2$ j s uhpj f'k{k. k dk; Z ds
vfrfjDrk vojkskd] Nk=ka ds i fr HknHko jgr okrkoj. k Jj'B i k; s x; A i ktr 'kksk ds fu"d"lz
vflHkkodka ds Jj'B fo | ky; ka ds p; u grq i kFkfed fo | ky; ka ds l pkyu] mlga ell; rk
inku djus ea f'k{k vflkdkfj; ka ds l gk; rk inku djxs l kfk gh 'kksk Nk=ka ds l gk; rk
inku djx



Introduction

The purpose of this journal is to provide a platform for the publication of research findings in various fields of study. The journal is peer-reviewed and covers a wide range of disciplines. The journal is published bi-monthly and is available online. The journal is a platform for the publication of research findings in various fields of study. The journal is peer-reviewed and covers a wide range of disciplines. The journal is published bi-monthly and is available online.

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fl fipr djuk ge l Hkh dk i Fke drD; gA bl h mnas; l s' kks'kdrkz us i kFkfed Lrj ij l jdkjh , oa xj&l jdkjh fo|ky; ka dh JSBrk ea l gk; d dkjdka dk rnyukRed v/; ; u** fd; k gA bu dkjdka dk vuq j.k djus l s i kFkfed Lrj ds fo|ky; ka dh fo"kerk gh l ekir gks tk, xhA

v/; ; u ds mnas' ;

i Lnr 'kks'k l eL; k ds fuEu 12 i adk mnas; fu/kkFjr fd; s x; s g%

- 1- 1/4-1/2 fo|ky; ka dh JSBrk ea l gk; d dkjdka dk l jdkjh , oa xj&l jdkjh i kFkfed fo|ky; ka rFkk 'kgjh i kFkfed fo|ky; ka , oa xkeh.k i kFkfed fo|ky; ka l s rnyuk djuka
- 2 1/4[k-1/2 fo|ky; ka dh JSBrk ea l gk; d dkjdka dks i kB; Øe ea vi ukdj i kjfEHkd f'k{kk dks JSB cukuka

i fjdYi uk; &

i Lnr v/; ; u , d vkn'kkRed l o'k.k gA bl dh eq; i fjdYi uk, a fuEufyf[kr g%

- 1- l jdkjh i kFkfed fo|ky; ka , oa xj&l jdkjh i kFkfed fo|ky; ka dh ekudka ds vuq i voLFkki uk l fpo/kkvka ea dkbZ vUrj ugha i k; k tkrk gA
- 2- l jdkjh i kFkfed fo|ky; ka , oa xj&l jdkjh i kFkfed fo|ky; ka ea xjhch js[kk l s uhps jgus okys cPka ds ukekadu ea dkbZ vUrj ugha i k; k tkrk gA
- 3- l jdkjh i kFkfed fo|ky; ka , oa xj&l jdkjh i kFkfed fo|ky; ka ea f'k{kdk&Nk= vuq kr ea dkbZ vUrj ugha i k; k tkrk gA
- 4- l jdkjh i kFkfed fo|ky; ka , oa xj&l jdkjh i kFkfed fo|ky; ka ea f'k{kdkka }kj k f'k{k.k dk; Z ds vfrfjDr vU; dk; Z djus ea dkbZ vUrj ugha i k; k tkrk gA
- 5- l jdkjh i kFkfed fo|ky; ka , oa xj&l jdkjh i kFkfed fo|ky; ka ds f'k{kdkka dh ; kx; rk ea dkbZ vUrj ugha i k; k tkrk gA



- 6- I jdkjh i kFkfed fo |ky; ka , oa xj&l jdkjh i kFkfed fo |ky; ka ea Nk=ka grq mi yC/k xqkoRrk ; qR ; kstukvka ea dkbZ vlrj ugha i k; k tkrk gA
- 7- I jdkjh i kFkfed fo |ky; ka , oa xj&l jdkjh i kFkfed fo |ky; ka ea Nk=ka dks [ksydln dh l fo/kkvka ea dkbZ vlrj ugha i k; k tkrk gA
- 8- I jdkjh i kFkfed fo |ky; ka rFkk xj&l jdkjh i kFkfed fo |ky; ka ds i jh{kQy ea dkbZ vlrj ugha i k; k tkrk gA
- 9- I jdkjh i kFkfed fo |ky; ka rFkk xj&l jdkjh i kFkfed fo |ky; ka ds 'k{k d okrkoj .k ea dkbZ vlrj ugha i k; k tkrk gA
- 10- I jdkjh i kFkfed fo |ky; ka rFkk xj&l jdkjh i kFkfed fo |ky; ka ea Hk"kk rFkk xf.krh; fodkl ea dkbZ vlrj ugha i k; k tkrk gA
- 11- I jdkjh i kFkfed fo |ky; ka rFkk xj&l jdkjh i kFkfed fo |ky; ka ds Nk=ka ds l okh.k fodkl ea dkbZ vlrj ugha i k; k tkrk gA
- 12- I jdkjh i kFkfed fo |ky; ka rFkk xj&l jdkjh i kFkfed fo |ky; ka ea Nk=ka ds i fr Hkn&Hko jfgr okrkoj .k ea dkbZ vlrj ugha i k; k tkrk gA
- 13- I jdkjh i kFkfed fo |ky; ka , oa xj&l jdkjh i kFkfed fo |ky; ka ea Nk=ka dh mi fLFkr ea dkbZ vlrj ugha i k; k tkrk gA
- 14- I jdkjh i kFkfed fo |ky; ka , oa xj&l jdkjh i kFkfed fo |ky; ka ea dk; Z fnol ka dh l a[; k ea dkbZ vlrj ugha i k; k tkrk gA
- 15- I jdkjh i kFkfed fo |ky; ka , oa xj&l jdkjh i kFkfed fo |ky; ka ea f'k{k.k dk; Z ds vojks'kdka ea dkbZ vlrj ugha i k; k tkrk gA

i fj l heu

- 1- i Lnr 'kks'k dk; Z ea dpy i kFkfed fo |ky; ka dks l fEefyr fd; k x; k gA
- 2- i Lnr 'kks'k l eL; k ds vlrxi' dpy dkuig e.My dh i j fEHkd f'k{k ds fodkl ij nf"Vi kr fd; k x; k gA



3- bl v/; ; u ea l UnHkZ ds : i ea vuPnN 45 , oa 46 ds vuq kj] xqkoRrk ds dkjdka ds fy, e.My ds l Hkh ftyka ea l s 20&20 ¼120 th0, l 0½ \$ 120 ¼, u0th0l h0½ = 240 i kjfEHkd fo|ky; ka dh J\$Brk dks ekik tk; sx rFkk J\$Brk ea l gk; d dkjdka dk v/; ; u fd; k tk; sxkA

4- i Lnr v/; ; u ea p; fur N% ftyka ds i kFkfed f'k{kk ds f0; kUo; u ea l gk; d i zkkukpk;] f'k{k(d] i zU/kd] l epk;] ekrk&fi rk] l j {kdka xkeh. k f'k{kk l fefr; ka ds l nL; ka dh Hkkxhnhkj h dks Kkr fd; k x; k gS bl h Hkkxhnhkj h ds vk/kkj ij Kkr fd; s x; A felnpka l s J\$Brk ea l gk; d dkjdka dks [kkstk x; k gA

'kks/k fof/k

bl v/; ; u ea eyr% l oZk.k fof/k dk iz xs fd; k x; k gA pfd i Lnr 'kks/k l eL; k dk v/; ; u vkn'kZdyd l oZk.k }kjk fd; k tk; sxkA bl fy, 'kks'kdrkZ }kjk viuh l jyrk ds fy, i z ukoyh] erkoyh , oa nRr l dyu i i = dk fuekZk fd; k x; k gA

tul a[; k , oa i frn'kZ

i Lnr 'kks/k v/; ; u ea dkui g e.My ds vUrxr N% ftyka dkui g uxj] dkui g ngkr] vk\$S k] bVkok] Q: [kkcn] dlukst ds l Ei wkZ i kFkfed fo|ky; vkrs gS ftudh l a[; k 14943 gS tks dkui g e.My ds 50 Cykdka l s l Ec) gS buea 14219 l jdjh i kFkfed fo|ky; , oa 724 xj l jdkjh i kFkfed fo|ky; vkrs gA

'kks/k ea iz q r pj

Lora= pj& i kFkfed fo|ky; ka dh J\$Brk ea l gk; d dkjdA

vkfJr pj& i kFkfed fo|ky; ka dh J\$BrkA

l kf[; dh; fof/k; kj& vkadMka ds fo'y\$ k grq e/; eku rFkk ekud fopyu dk iz xs fd; k x; kA nks fofHku l engka ds e/; l kFkd vUrrj Kkr djus grq 0kflurd vuq kr ¼. R. ½ dk iz xs fd; k x; k gA nks l engka ds fofHku dkjdka ds e/; l kFkd vUrrj Kkr djus grq x^2 ; k iz xs fd; k x; k gA



rkfydk &1

I j dkjh rFkk xj & I j dkjh i kFkfed fo | ky; ka dh J s'Brk ea l gk; d dkj dka
dh rgyuk

J s'Brk ea l gk; d dkj d	N	Men	S.D.	Men	Df	C. R.
ekudka ds vk/kkj i j voLFkki uk l fo/kk, i	500	4.566	1.169	1-70	998	20-737
	500	6.266	1.412			**
ukekdu	500	1.996	0.801	1.026	998	23.680
	500	0.970	0.545			**
f' k{k d Nk= vuq kr	500	0.236	0.282	0.482	998	21.876
	500	0.718	0.404			**
f' k{k dka }kj k f' k{k. k dk; l dh vfrfj Dr vU; dk; l	500	5.230	1.341	4.422	998	44.336
	500	9.652	1.782			**
f' k{k dka dh ; kx; rk	500	0.700	0.424	0.392	998	16.520
	500	0.308	0.319			**
Nk=ka gsrq mi yC/k	500	3.216	1.001			29.466



xq koRrk; Ør ; kst uk, j	500	5.428	1.340	2.212	998	**
Nk=ka dks mi yC/k [ky&dn dh l fo/kk; a	500	1.854	0.773	2.336	998	36.963
	500	4.190	1.183			**
i jh{kkQy	500	0.542	0.424	0.348	998	11.438
	500	0.890	0.532			**
' k{kd okrkoj . k	500	0.470	0.376	1.194	998	32.444
	500	1.664	0.732			**
Hkk"kk rFkk xf. krh; fodk' k	500	0.904	0.547	0.604	998	15.136
	500	1.508	0.705			**
Nk=ka ds l okxh. k fodkl	500	2.980	0.988	1.848	998	25.757
	500	4.828	1.264			**
Nk=ka ds i fr HknHkko jfgr okrkoj . k	500	3.722	1.095	0.506	998	7.564
	500	3.216	1.019			**
Nk=ka dh mi fLFkfr	120	81.70	5.167	12.05	238	17.277
	120	93.75	5.628			**



dk; l fnol ka dh l d	120	227.025	6.660	.916	238	8.884
	120	236.941	8.709			**

******- 05 , oa -01 l kFkZdrk Lrj ij l kFkZd gSA

rkydk & 2

l j dkjh rFkk xj & l j dkjh i kFkfed fo | ky; ka ea i k; s tkus okys f' k{k. k dk; l

ds voj k/kk ka dh rnyuka

l eig		tux.kuk	Hkou fuekZ k	fuokpu dk; l	feM&Ms ehy	fyfi dh; dk; l	; ksx	χ^2
l j dkjh i kOf00 ¼120½	F0	109	52	114	99	109	483	63.04
	Fe	104.46	49.83	109.25	94.88	124.58		
xj l j dkjh i kOf00 ¼120½	F0	' kkl;	' kkl;	' kkl;	' kkl;	21		**
	Fe	4-54	2-17	4-75	4-12	5-42		
; ksx		109	52	114	99	130	504	

******- 05 , oa -01 l kFkZdrk Lrj ij l kFkZd gSA



fu"d"kk& i klr ifj. kkeka ds vk/kkj ij fuEufyf[kr fu"d"kk fudkys tk l drs g&

- 1- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea ik; h tkus okyh voLFkki uk l fo/kk, a J\$B g&
- 2- x\$&ljdkjh i kFkfed fo |ky; ka dh vi \$kk ljdkjh i kFkfed fo |ky; ka ea xjhch js[kk l s uhrs jgus okys cPpka dk ukeadu Lrj J\$B g&
- 3- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea ik; k tkus okyk f'k{kdk&Nk= vuq kr J\$B gs vFkkZr~ifr f'k{kdk Nk=ka dh l a[; k de jgrh g&
- 4- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea f'k{kdk }kjk f'k{k.k dk; Z ds vfrfjDr vu; dk; Z djus dh l a[; k vf/kd g&
- 5- x\$&ljdkjh i kFkfed fo |ky; ka dh vi \$kk ljdkjh i kFkfed fo |ky; ka ea f'k{kdk ka dh ; k& rk J\$B g&
- 6- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea Nk=ka gsrq vf/kd l a[; k ea xqkorrk; Dr ; kstuk, a mi yC/k g&
- 7- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea ik; h tkus okyh [ksy&dm dh l fo/kk, a J\$B g&
- 8- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka dk ij h{kkQy J\$B g&
- 9- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea ik; k tkus okyk 'k\$kd okrkj.k J\$B g&
- 10- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea ik; k tkus okyk Hkk"kk rFkk xf.krh; fodkl J\$B g&
- 11- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea Nk=ka dk l ok&h.k fodkl J\$B g&
- 12- ljdkjh i kFkfed fo |ky; ka dh vi \$kk x\$&ljdkjh i kFkfed fo |ky; ka ea ik; k tkus okyk Nk=ka ds ifr HknHko jfgr okrkj.k J\$B g&



13- I jdkjh i kFkfed fo |ky; ka dh vi s{kk xj & I jdkjh i kFkfed fo |ky; ka ea i k; h tkus okyh Nk=ka dh mi fLFkfr vf/kd J\$B gA

14- I jdkjh i kFkfed fo |ky; ka dh vi s{kk xj & I jdkjh i kFkfed fo |ky; ka ea dk; Z fnol ka dh I a[; k vf/kd J\$B gA

15- xj & I jdkjh i kFkfed fo |ky; ka dh vi s{kk I jdkjh i kFkfed fo |ky; ka ea f'k{k.k dk; Z ds vojks'kd vf/kd I a[; k ea i k; s tkrs gA

'kF{k'kd egRo

1- i nkZupku gsrq vuq; z; kx

J\$Brk ea I gk; d dkj dka ds vk/kkj ij I eLr i xdkj ds i kFkfed fo |ky; ka dh J\$Brk Lrj dk i nkZupku yxk; k tk I drk gA

❖ fdl h i kFkfed fo |ky; dh 'kF{k'kd fu"i fRr dk i nkZupku yxk; k tk I drk gA

❖ 'kF{k'kd fu"i fRRK ds vk/kkj ij fo |ky; ds 'kF{k'kd okrj.k dk i nkZupku yxk; k tk I drk gA

❖ xjhch j s{kk I s uhrs jgus okys fo |kFkz; ka dh 'kF{k'kd fu"i fRr ds dkj.k ka dk i nkZupku yxk; k tk I drk gA

2- 'kF{k'kd ; kstukvka ds dk; kZlo; u gsrq vuq; z; kx

❖ fo |ky; ka dh i xU/ku ; kstukvka ea v/; ; u ds i fj.kkka dk fØ; kZlo; u fd; k tk I drk g\$ bl I s fo |ky; ka ds xqkoRrk Lrj ea I qkkj gksxA

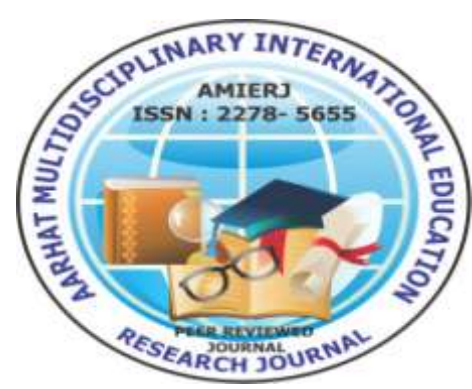
❖ v/; ; u ds i fj.kkka dk I jdkjh f'k{k.k ; kstukvka ea dk; kZlo; u djds I jdkjh f'k{k.k I LFk'k'ka dh xqkoRrk Lrj ea I qkkj fd; k tk I drk gA

3- fdl h f'k{k.k I LFk'k'ka dh vl Qyrk ds dkj.k ka dk i rk yxkus gsrq vuq; z; kx

fdl h f'k{k.k I LFk'k'ka mlU; u gsrq ml ea J\$B fo |ky; h dkj dka dh mi fLFkfr vko'; d g\$ vr% fdl h f'k{k.k I LFk'k'ka dh vl Qyrk bl ckr dh |ksd g\$fd ml I LFk'k'ka ea mi jkDr J\$B dkj dka ea I s vf/kdrj vuq LFkfr gA



- 4- i kFkfed f' k{k k ea vuq z; ksx
- ❖ I jdkjh i kFkfed fo |ky; ka ea f' k{k k dks f' k{k.k dk; Z ds vfrfjDr tS & tux.kuk] Hkou fuekZk] fuokpu dk; Z feM&Ms eh] fyfi dh; dk; Z tS s vuud dk; Z djus iMfs gs ftl l s mudk f' k{k.k dk; Z iHkfor gkrk gA vr% bu dk; ka dk fuokj.k djds I jdkjh i kFkfed fo |ky; ka ds f' k{k.k Lrj ea l qkkj fd; k tk l drk gA
- ❖ I gk; d l kexh ds iz ksx }kjk f' k{k.k dk; Z dks l jy , oa ckskxE; cuk; k tk l drk gA
- 5- vU; vuq z; ksx
- ❖ f' k{k.k l lFk ea f' k{k.kd , oa vfHkHkod l ak dh 0; oLFk djds l lFk dh dfe; ka dh tkudkj dh tk l drh gA
- ❖ fo |ky; ds fu; fer i ; bsk.k }kjk fo |ky; ka dh JSBrk cuk; s j [kh tk l drh gA
- Hkkoh v/; ; u gsrq l pko
- ❖ i Lnr 'kks/kdk; Z dkuij e.My ds l nHkZ ea fd; k x; k gS bl s ins k] ns k , oa vUrkZVh; Lrj ij fd; k tk l drk gA
- ❖ i Lnr 'kks/kdk; Z dby i kFkfed fo |ky; Lrj ij fd; k x; k] bl s ek/; fed , oa mPp Lrj ij Hkh fd; k tk l drk gA
- ❖ i Lnr 'kks/k dk; Z ea l jdkjh rFk xS & l jdkjh i kFkfed fo |ky; ka dk ^kgjh l jdkjh rFk 'kgjh xS l jdkjh** , oa ^xkeh.k l jdkjh rFk xkeh.k xS & l jdkjh** i kFkfed fo |ky; ka ds l nHkZ ea v/; ; u fd; k x; k gS bl s ^kgjh l jdkjh i kFkfed rFk xkeh.k xS & l jdkjh , oa ^xkeh.k l jdkjh rFk 'kgjh xS & l jdkjh i kFkfed fo |ky; ka ds l nHkZ ea v/; ; u fd; k tk l drk gA
- ❖ i Lnr 'kks/k dk; Z ek=kRed izdkj dk gS bl dk xqkkRed 'kks/k fd; k tk l drk gA
- ❖ i Lnr v/; ; u i kFkfed fo |ky; ka dh JSBrk ea dN l hfer i Lnr v/; ; u ea dkjdka dks vk/kkj cuk; k x; k gS bl ea JSBrk ea l gk; d vU; dkjdka dks Hkh fy; k tk l drk gA



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