



oL= fM t kbu d rRo

i kB ; i Lrd

d {kk & XI



dUæh ; ek/ ; fed f'k {kk ckM.
I g ; kxdÜkk



jk"Vh ; Q'ku çk | kfxdh I LFkku

oL= fM t kbu d rRo

oL= fM t kbu d rRo ikBî iLrd ,o 0;kogkfjd iLrdk d{kk& XI

çFke IiLdj.k% vDrcj 2013

I hch, I b] Hkkjr

çfr;k %

eY; %

pf d I h Hkh 0;fä ;k , t I h }kjk bl iLrd ;k bl d fd I h Hkh Hkkx dk
fd I h Hkh #i I iu#Rikfnr ugh fd;k tk I drk gAß

çdk'kd % Ifpo] dUæh; ek/;fed f'k{kk ckM]
f'k{kk dUæ] 2] lenk; din] çhr fogkj] fnYyh&110092

fM t kbu y&vkmV % Mh-d- fi:VI] 5@37,) bMLVh;y ,fj;k] dhfr! uxj]
ub! fnYyh&110015

Ekæd %

भारत का संविधान

उद्देशिका

हम, भारत के लोग, भारत को एक सम्पूर्ण ¹प्रभुत्व-संपन्न समाजवादी पंथनिरपेक्ष लोकतंत्रात्मक गणराज्य बनाने के लिए, तथा उसके समस्त नागरिकों को:

सामाजिक, आर्थिक और राजनैतिक न्याय,
विचार, अभिव्यक्ति, विश्वास, धर्म

और उपासना की स्वतंत्रता,
प्रतिष्ठा और अवसर की समता

प्राप्त कराने के लिए

तथा उन सब में व्यक्ति की गरिमा

²और राष्ट्र की एकता और अखंडता

सुनिश्चित करने वाली बंधुता बढ़ाने के लिए

दृढसंकल्प होकर अपनी इस संविधान सभा में आज तारीख 26 नवम्बर, 1949 ई० को एतद्वारा इस संविधान को अंगीकृत, अधिनियमित और आत्मार्पित करते हैं।

1. संविधान (बयालीसवां संशोधन) अधिनियम, 1976 की धारा 2 द्वारा (3.1.1977) से “प्रभुत्व-संपन्न लोकतंत्रात्मक गणराज्य” के स्थान पर प्रतिस्थापित।
2. संविधान (बयालीसवां संशोधन) अधिनियम, 1976 की धारा 2 द्वारा (3.1.1977) से “राष्ट्र की एकता” के स्थान पर प्रतिस्थापित।

भाग 4 क

मूल कर्तव्य

51 क. मूल कर्तव्य - भारत के प्रत्येक नागरिक का यह कर्तव्य होगा कि वह -

- (क) संविधान का पालन करे और उसके आदर्शों, संस्थाओं, राष्ट्रध्वज और राष्ट्रगान का आदर करे;
- (ख) स्वतंत्रता के लिए हमारे राष्ट्रीय आंदोलन को प्रेरित करने वाले उच्च आदर्शों को हृदय में संजोए रखे और उनका पालन करे;
- (ग) भारत की प्रभुता, एकता और अखंडता की रक्षा करे और उसे अक्षुण्ण रखे;
- (घ) देश की रक्षा करे और आह्वान किए जाने पर राष्ट्र की सेवा करे;
- (ङ) भारत के सभी लोगों में समरसता और समान भ्रातृत्व की भावना का निर्माण करे जो धर्म, भाषा और प्रदेश या वर्ग पर आधारित सभी भेदभाव से परे हों, ऐसी प्रथाओं का त्याग करे जो स्त्रियों के सम्मान के विरुद्ध हैं;
- (च) हमारी सामासिक संस्कृति की गौरवशाली परंपरा का महत्त्व समझे और उसका परिरक्षण करे;
- (छ) प्राकृतिक पर्यावरण की जिसके अंतर्गत वन, झील, नदी, और वन्य जीव हैं, रक्षा करे और उसका संवर्धन करे तथा प्राणी मात्र के प्रति दयाभाव रखे;
- (ज) वैज्ञानिक दृष्टिकोण, मानववाद और ज्ञानार्जन तथा सुधार की भावना का विकास करे;
- (झ) सार्वजनिक संपत्ति को सुरक्षित रखे और हिंसा से दूर रहे;
- (ञ) व्यक्तिगत और सामूहिक गतिविधियों के सभी क्षेत्रों में उत्कर्ष की ओर बढ़ने का सतत प्रयास करे जिससे राष्ट्र निरंतर बढ़ते हुए प्रयत्न और उपलब्धि की नई उंचाइयों को छू ले;
- ¹(ट) यदि माता-पिता या संरक्षक है, छह वर्ष से चौदह वर्ष तक की आयु वाले अपने, यथास्थिति, बालक या प्रतिपाल्य के लिये शिक्षा के अवसर प्रदान करे।

1. संविधान (छयासीवां संशोधन) अधिनियम, 2002 की धारा 4 द्वारा प्रतिस्थापित।

THE CONSTITUTION OF INDIA

PREAMBLE

WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a ¹**SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC** and to secure to all its citizens :

JUSTICE, social, economic and political;

LIBERTY of thought, expression, belief, faith and worship;

EQUALITY of status and of opportunity; and to promote among them all

FRATERNITY assuring the dignity of the individual and the² unity and integrity of the Nation;

IN OUR CONSTITUENT ASSEMBLY this twenty-sixth day of November, 1949, do **HEREBY ADOPT, ENACT AND GIVE TO OURSELVES THIS CONSTITUTION.**

1. Subs. by the Constitution (Forty-Second Amendment) Act. 1976, sec. 2, for "Sovereign Democratic Republic" (w.e.f. 3.1.1977)

2. Subs. by the Constitution (Forty-Second Amendment) Act. 1976, sec. 2, for "unity of the Nation" (w.e.f. 3.1.1977)

THE CONSTITUTION OF INDIA

Chapter IV A

FUNDAMENTAL DUTIES

ARTICLE 51A

Fundamental Duties - It shall be the duty of every citizen of India-

- (a) to abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem;
- (b) to cherish and follow the noble ideals which inspired our national struggle for freedom;
- (c) to uphold and protect the sovereignty, unity and integrity of India;
- (d) to defend the country and render national service when called upon to do so;
- (e) to promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities; to renounce practices derogatory to the dignity of women;
- (f) to value and preserve the rich heritage of our composite culture;
- (g) to protect and improve the natural environment including forests, lakes, rivers, wild life and to have compassion for living creatures;
- (h) to develop the scientific temper, humanism and the spirit of inquiry and reform;
- (i) to safeguard public property and to abjure violence;
- (j) to strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavour and achievement;
- ¹(k) to provide opportunities for education to his/her child or, as the case may be, ward between age of 6 and 14 years.

1. Subs. by the Constitution (Eighty - Sixth Amendment) Act, 2002

oL= fM t kbu d rRo

oL= fM t kbu d rRo

$\frac{1}{4}$ l hch, l b X; kjgoh d{kk d fy, ikBî iLrd $\frac{1}{2}$

vke[k

oL= fM t kbu e diM dh lrg] oL= mRikn vkj vU; fofHkUu oL= lkefx; k e uohurk yku d fy, u, fM t kbu d igyvk d fodkl dk , d i. k -f"Vdk. k 'kkfey gA blei ?kjy oL=k] l tkovh diM vkj vU; diM e mi; kx fd, tku oky diM d fM t kbu Hkh 'kkfey gA ;g rduhdh fofuni'k vkj lgh okf.kfT; d eY; d Hkhrj vfre mRikn d fodkl d l kFk&l kFk fM t kbu gLr{ki Hkh 'kkfey gA

vfHkuo lrg vkj ljpuk cuk d fy,] ^fM t kbu d rRo** ikBîØe dk , d çkFked ikBîØe d : i e çLr fd; k x; k gA ;g ikBîØe oL= fM t kbu] fM t kbuj vkj oL= m| kx dk , d lf{klr voykdu çnku djxkA bl ikBîØe dk lex mî'; oL=] oL= fM t kbu vkj lcf/kr 'kCnkoyh d lcf/k e fM t kbu dh ey ckrk rFk oL= m| kx dh lex dk; i) fr dk le>uk gA

l hch, l b

Jh fouhr tk'kh] vkbl, , l] v/; {k] l hch, l b

M,- fcLothr lkgk $\frac{1}{4}$, l kfl; V çkQ l j , o dk; Øe vf/kdkjh $\frac{1}{2}$] 0; kol kf; d çdk"B

l Jh Lokfr xlrk $\frac{1}{4}$ l gk; d çkQ l j , o l gk; d dk; Øe vf/kdkjh $\frac{1}{2}$] 0; kol kf; d çdk"B

fu¶V

Jh çe dekj xijk] vkbl, , l

ofj- çk- cu gh > k] Mhu $\frac{1}{4}$, $\frac{1}{2}$

çkQ l j -iky ekFkj] jftLV^{kj}

l ; k t d

l Jh l fork 'kj, u jk. kk] , l kfl; V çkQ l j , o v/; {k] oL= fM t kbu foHkx

; kxn kud r k

çk- vuie tlu] oL= fM t kbu foHkx] fu¶V g'njckn

çkQ l j l Jh fd ly; pk/kjh] l gk; d çk/; ki d] oL= fM t kbu foHkx] fu¶V] Hkikiy

oL= fM t kbu d rRo

Hkfedk

Hkkjrh; oL= m|kx dh n'k d| vkfFkd thou ei ,d egRoil.ki mifLFkfr gi vkj ;g nfu;k d| vx|..kh oL= m|kxka ei l| ,d g'A Hkkjr viuh diy fon'kh eæk dk yxHkx 27 ifr'kr] diMk fu;k| d| ek/;e l| vftlr djrk g'A bld| vykok] Hkkjr dk oL= m|kx n'k d| diy vk|kfxd mRiknu ei yxHkx 14 ifr'kr dk ;kxsku djrk g'A ;g n'k d| ldy ?kjiyi mRikn ei yxHkx 3 ifr'kr ;kxsku nirk g'A Hkkjr dk oL= m|kx —f'k d| ckn n'k dk niljk lcl| cMk jktxkj çnkrk g'A

12ohi ipo"kh| ; ktuk d| vu|lkj] ,dh—r dk'ky fodkl ;ktuk dk y{; vku| oky 5 lkyk ei 2]675]000 ykxka dk çf'kf{kr djuk g'A bl ;ktuk ei oL= vkj ifj/kku] gLrf'kYi] gFkdj?kk] tV vkj j'ke dhV ikyu d| :i ei diMk {k= d| lHkh mi {k=k dk vkor fd;k tk,xkA

d'ky dfe|;k dh c<rh vko'; drk dk ijk dju d| fy,] lhch, lbi u| d{kk X;kjgohi vkj ckjgohi d| fy, ^oL= fMtkbu** dk ,d 0;kolkf;d ikBîØe d| :i ei vkjHk dju dh igy dh g'A bl ikBîØe dk y{; Nk=k dk gekj; ikjifjd oL=k d| fMtkbu d| rRok] diMk foKku] cu| gi, diM] jxkb| vkj Nikb| dh çfØ;kvka l| ifjfr djuk g'A bl l| Nk=k d| ckjgohi d{kk d| ckn m|kx ei 'kkfey gku ei enn feyixh ;k o| bl {k= ei mPp f'k{kk çklr dj ldr| g'A

ikBîØe vkj f'k{k.k lkexh jk"Vh; Q'ku çk|kfxdh lLFkku d| ldk; u| fodflr dh g'A ei Jh vkj- yky—".k xijk] egkfun'kd] fu¶V] ofj"B çkQ|j cu|gh >k] Mhu& 'k{kf.kd] ifj;ktuk çHkkjh vkj l|Jh lfork 'kjkku jk.kk] v/;{k] oL= fMtkbu foHkx] ifj;ktuk l|pkyd & oL= fMtkbu }kjk çnku dh xbi lokvka dk ckM| d| fjdkM| ei 'kkfey djrk g'A ikBîØe dk lHkh fu¶V dUæk d| oL= fMtkbu foHkx d| ldk; lnL;k }kjk ri;kj vkj fodflr fd;k x;k g'A lhch, lbi çkQ|j vu|e tu| gnjkcn] l|Jh fdly; pk/kjh] lgk;d çkQ|j Hkikiy] l|Jh 'kHkxh ;kno] ,lkfl,V çkQ|j] xk/khuxj] ekgEen tkon] ,lkfl,V çkQ|j] eicb] Jh vuic lu] lgk;d çkQ|j] Hkikiy] Jh noT;kfr xkx|yh] lgk;d çkQ|j] Hkikiy vkj Jh f'kofyxe }kjk fd, x, ;kxsku d| fy, mudk vkHkkjh g'A

ei M,- fcLothr lgk] ,lkfl,V çkQ|j ,o| dk;Øe vf/kdkjh] 0;kolkf;d f'k{kk çdk"B] lhch, lbi vkj l|Jh Lokfr xlrk] lgk;d çkQ|j ,o| lgk;d dk;Øe vf/kdkjh] 0;kolkf;d f'k{kk çdk"B] lhch, lbi vkj 0;kolkf;d f'k{kk çdk"B d| vU; lnL;k dh ljkgu djrk gi lhch, lbi u| Hkh budh ljkgu dh g'A

ikBîØe ei vx| l/kkj d| fy, fvlif.k;k vkj l|>koka dk ge'kk Lokxr fd;k tk,xkA

fouhr tk'kh
v/;{k] lhch, lbi

bdkb – I

mí'; %

- ◊ oL=k dh ,frgkfl d i”BHkfe dk le>ukA
- ◊ diMk m|kx vkj lcf/kr m|kxk dk voykdu çlir djukA
- ◊ fofHkUu oL= lkexh vkj çfØ;kvk d lKfk ifjfpr gkukA
- ◊ ,d {k= d : i e oL= fM tkbu d ckj e Kku çlir djukA
- ◊ ,d i'k d : i e oL= fM tkbu vkj oL= vkj Q'ku m|kx e oL= fM tkbuj dh Hkfedk dk le>ukA
- ◊ oL= m|kx dh dk;l ljpuk] le; vkj ;ktuk dk le>uk A
- ◊ iokueku vkj cktkj d #>ku] oL= m|kx e bld egRo vkj t:jr d Kku dk fodflr djukA

v/;;u ifj.kke%

ikBîØe lelr dju d ckn Nk= bue l{ke gk tk,x

- ◊ bfrgkl vkj m|kx d orieku ifj–'; lfrg oL= m|kx dk voykdu çlir djukA
- ◊ oL= fM tkbu lkexh] çfØ;k vkfn d lKfk tM 'kCnk d ckj e tkuukA
- ◊ cktkj vkj çofÜk;k d egRo dk le>uk vkj voykdu dk'ky e of) djukA
- ◊ ,d fM tkbuj d : i e oL= m|kx d dk;kRed igyv vkj Hkfedkvk vkj ftEenkfj;k dk le>ukA

lkkBîØe lkexh%

- 1- oL=] mld bfrgkl vkj vk|kfxd i”BHkfe dk ,d voykdu
- 2- oL= fM tkbuj dh Hkfedk dh ftEenkfj;k
- 3- oL= lkexh vkj çfØ;k
- 4- oL= m|kx dk;l ljpuk] le; vkj ;ktuk
- 5- cktkj dh çofÜk vkj iokueku dk egRo

oL= fM tkbu d rRo

f'k{k.k i)fr%

- ◊ d{k k 0; k[; ku vkj 0; kogkfjd çn'ku
- ◊ d{k k&d{k ç'ukÜkj h
- ◊ çLrfr; k vkj d{k k e; ppk
- ◊ dk; l dh leh{k k vkj çfrfØ; k
- ◊ ck tkj dh ; k=k] çk lfxd oL= fofuek.k bdkb l xigky; k vkfn dk lo{k.k vkj {k= dk nkj kA

EkY; kdu EkkunM%

- ◊ fyf[kr fl)kr ijh{k k Kku vkj le>A
- ◊ ppk vkj ç'ukÜkj h le>ukA

bdkb – II

mí'; %

bl bdkb dk e[; mí'; oL= fM tkbu d çkFkfed ?kVdk vkj lcf/kr çfØ; k dh , d le> fodfl r djuk gA oL= fM tkbu dk cfu; knh Kku oL= fM tkbu d fofHkUu {k=k e; vx; ç; kx d; fy, vko'; d vkj mi; kxh gA

- ◊ oL= fM tkbu d ?kVdk vkj lcf/kr çfØ; k d; fy, , d le> fodfl r djukA
- ◊ Nk=k dk cfu; knh fl)kr vkj fM tkbu d rRok l ifjfpr djukA
- ◊ : ik vkj jxk dk mi; kx dj vkd"kd jpukvk dk fodkl djukA
- ◊ Nk=k e; cgrj : ik dh le> vkj vf/kd eY; d; –'; fp= cuk; e; budk ç; kx dju d; fy, l onu'khyrk dk fodkl djukA

lkkBîØe l kexh%

ikBîØe ijk dju d; ckn Nk= bUg; dju e; l {ke gk tk, xA

- ◊ oL= fM tkbfux d; fy, fM tkbu rRok vkj fl)krk d; vuç; kx dk le>ukA
- ◊ fM tkbu dh çfØ; k d; l kFk ifjfpr gkuk vkj vfHkuo l kexh vkj rduhd dk mi; kx djr; g, fM tkbu vo/kkj.kk, cukukA
- ◊ Nk=k dk fofHkUu fM tkbu jpukvk ij dke dju e; l {ke cukukA

oL= fM t kbu dı rRo

v/;;u ifj.kke%

1- fM t kbu dı rRo

2- fM t kbu fl)kr

f'k{k.k i)fr%

- ♦ d{k k 0; k[; ku vkj 0; kogkfjd çn'kuA
- ♦ fof'k"V diMk mRikn dı fy, fM t kbu cuku dk d{k k dk;ı A
- ♦ çn'ku] çLrfr; k vkj d{k k eı ppkA
- ♦ dk;ı ij l eh{k k vkj çfrfØ; kA
- ♦ cktkj dh ; k=k] lo{k.k.kA
- ♦ fM t kbu gkÅ l k dk nkjk ¼; fn l Hko gk rk½A
- ♦ diMk iı'kojkı }kjk fo'k" k 0; k[; ku vkj çLrfr; kA

eY; kdu ekunM%

- ♦ fyf[kr fl)kr ijh{k k k Kku vkj le>A
- ♦ 0; kogkfjd dk; % vkonu vkj dkı'kyA
- ♦ fM t kbu dk; % fM t kbu fopkjkı] jpukRedrk vkj dk; {kerk eı uokpkjA
- ♦ çn'ku vkj çLrfr% LoPNrk vkj —'; çHkkoA

bdkb — III

mıı'; %

bl bdkbı dk e[; mıı'; oL= fM t kbu iVıu] nkgjko] fofHkUu yıvkmV] jıxk dı mıı'; kx] fM t kbu dh fofo/krk vkj çj.kk iınk djuı dı fy, jıx dı rjhdı lı fuek.k dh ,d ijh çfØ; k dı ek/; e lı oL= fM t kbu dı ?kVdkı dh ,d le> fodflr djuk gA

- ♦ oL= fM t kbu dı ?kVdkı] vkj lıcf/kr çfØ; k dı fy, ,d le> fodflr djukA
- ♦ Nk=kı dkı oL= fM t kbu fodkl dı vuç; kx eı fl)krkı vkj fM t kbu dı rRokı dk mıı'; kx djuı eı lı{ke djukA
- ♦ fofHkUu fof/k; k dı ek/; e lı vk—fr vkj :ı dı fodkl dh jpukRed çfØ; k dkı le>ukA

oL= fM tkbu d rRo

- ◊ : i k v k j j i x d k m i ; k x d j f n y p L i l j p u k v k i d k f o d k l d j u k A
- ◊ N k = k e i o L = f M t k b u d h ç f Ø ; k d h , d l e x i l e > d i f y , l i o n u ' k h y r k d k f o d k l d j u k A
- ◊ f M t k b u d i f o d k l d i f y , f o f H k U u ç j . k k , i y u i d i f y , N k = k e i l i o n u ' k h y r k d k f o d k l d j u k A

v / ; ; u i f j . k k e %

- ◊ i k B î Ø e i j k d j u i d i c k n N k = f u E u f y f [k r e i l { k e g k t k , i x i
- ◊ o L = f M t k b u x d i f y , f M t k b u r R o k i v k j f l) k r k i d i v u ç ; k x d k l e > u k A
- ◊ f M t k b u d h ç f Ø ; k d i l k F k i f j f p r g k u i d i f y , v k j v f H k u o l k e x h v k j r d u h d d k m i ; k x d j r i g , f M t k b u f o p k j c u k u k A
- ◊ f o f H k U u f M t k b u j p u k v k i n g j k o j y i v k m V v k j j i x ; k t u k i j d k e d j u i e i l { k e g k u k A

l k k B î Ø e l k e x h %

- 1- o L = f M t k b u d i e k f V Q f o d k l j n g j k o j y i v k m V v k j j i x r j h d i t l i r R o A
- 2- f M t k b u v k j f M t k b u ç f Ø ; k d i f y , ç j . k k A

f ' k { k . k i) f r %

- ◊ d { k k 0 ; k [; k u v k j 0 ; k o g k f j d ç n ' k u A
- ◊ f o f ' k " V d i M k m R i k n k i d i f M t k b u c u k u i d i f y , d { k k d k ; i A
- ◊ ç n ' k u j ç L r f r ; k i v k j d { k k e i f o p k j f o e ' k A
- ◊ d k ; l i j l e h { k k v k j ç f r f Ø ; k A
- ◊ c k t k j d h ; k = k j l o i { k . k v k j o L = H k M k j k i d k { k = h ; n k i j k A
- ◊ f M t k b u g k m l k i d h ; k = k ¼ ; f n l H k o g k ½ A
- ◊ o L = i i ' k o j k i } k j k f o ' k " k 0 ; k [; k u v k j ç L r f r ; k A

e Y ; k d u e k u n M %

- ◊ f y f [k r f l) k r i j h { k . k % l e > A
- ◊ 0 ; k o g k f j d d k ; % v u ç ; k x v k j d k i ' k y A
- ◊ f M t k b u d k ; % f M t k b u f o p k j j p u k R e d r k v k j d k ; i { k e r k e i u o k p k j A
- ◊ ç n ' k u v k j ç L r f r % L o P N r k v k j - ' ; ç H k k o A

bdkb – IV

mí';%

bl bdkb: dk e[; mí'; m|kx e: miyC/k fofHkUu çdkj d: oL=k: dk ,d l{fklr voykdu çklr djuk gA ble: cu: ¼fuV½ cu: ¼oou½ Ni] vy—r vkj çfrjk/kd oL=k: dk v/;;u 'kkfey gA ;g bdkb: oL=k: dh fofHkUu rduhd vkj çk|kfxd;k: dk le>ku: d: ek/;e l: oL=k: dk vyx djr h gA bl d: mí'; k: e: orieku diMk m|kx e: ektin dk; l ekudk: vkj rjhdk: d: 0;kol kf;d igyv k: dk le>uk Hkh 'kkfey gA

- ♦ oL=k: e: miyC/k fofHkUu çdkj k: d: fy, ,d le> fodflr djukA
- ♦ Nk=k: dk fofHkUu çdkj d: oL=k: d: fuek.k dh fofHkUu rduhd k: vkj fof/k; k: dh tkudkj h gkfly dju: e: l{ke djukA
- ♦ diMk 'kCnkoyh dh le> fodflr djukA
- ♦ orieku ifj—'; e: diMk m|kx e: ektin dk; l çFkkvk: d: i'koj igyv k: dh le> fodflr djukA
- ♦ 0;ogkfjd vuç;kx d: ek/;e l: oL= rduhd dk'ky dk fodkl djukA
- ♦ ,d çHkkoh fMtkbu çLrfr d: fy, lpkj dk'ky vkj lgh 'kCnkoyh dk ç;kx dju: dh {kerk dk fodkl djukA

v/;;u ifj.kke%

ikBîØe ijk dju: d: ckn Nk= bue: l{ke gk tk,ix:

- ♦ diMk m|kx e: miyC/k fofHkUu rduhd k: d: vuç;kx dk le>ukA
- ♦ cuk: dh rduhd vkj fMtkbu igyv k: dk n[kdj fofHkUu çdkj d: oL=k: e: virj dju: e: l{ke gkuk A
- ♦ Nk=k: dk orieku diMk m|kx e: dk; l ekudk: d: 0;kol kf;d igyv k: dk le>u: e: l{ke djukA
- ♦ ,d çHkkoh fMtkbu çLrfr dju: d: fy, l{ke gkukA

lkkBîØe l kexh%

- 1- rduhd d: vu|kj miyC/k fofHkUu oL= çdkj
- 2- fMtkbu vkj i'koj vkpj.k dh çLrfr

oL= fM tkbu d rRo

f'k{k.k i)fr%

- ◊ d{kk 0;k[;ku vkj 0;kogkfjd çn'kuA
- ◊ fo'k"r rduhd dk mi;kx djrı gl, fof'k"V diMk mRikn dı fy, fM tkbu cukuı dk d{kk dk;ıA
- ◊ d{kk ei çn'kuı çLrfr;kı vkj fopkj foe'kA
- ◊ dk;l dh leh{kı vkj çfrfØ;kA
- ◊ cktkj dh ;k=k] vki&ikl dh oL= fofuek.k bdkb;kı dk loı{k.k vkj {k=h; nkjkA
- ◊ fM tkbu gkmı kı dh ;k=k ¼;fn lHko gk¼A
- ◊ oL= iı'kojkı }kjk fo'k"r 0;k[;ku vkj çLrfr;kA

eY;kdu ekunM%

- ◊ fyf[kr fl)kr ijh{k.k% le>A
- ◊ 0;kogkfjd dk;% vuç;kx vkj dki'kyA
- ◊ fM tkbu dk;% fM tkbu fopkj] jpukRedrk vkj dk;ı{kerek ei uokpkjA
- ◊ çn'ku vkj çLrfr% LoPNrk vkj —'; çHkkoA

oL= fM t kbu dı rRo

fo" k ; l kexh

çLrkouk

vkHkkj

bdkbı I: oL= m | kx dk ifjp; 1

v/; k; 1 % oL= dk ,d voykdu% 2

1-1 oL= k dk bfrgk l 2

1-2 oL= m | kx 7

1-3 oL= l kexh vkj çfØ; k 10

1-4 oL= fM t kbu vkj fM t kbuj 15

v/; k; 2 % oL= fM t kbu vkj fM t kbuj% 20

2-1 oL= fM t kbu 20

2-2 oL= fM t kbuj dh Hkfedk 20

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v/; k; 3% fM t kbu dı fl) kr rFkk rRo 33

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oL= fM t kbu d rRo

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4-2-4	ni l.k nk gjko $\frac{1}{4}A/ok/kj$ vkj $\{kfr t\frac{1}{2}$	50
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oL= fM t kbu d rRo

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	'kCnkoyh	

oL= fM t kbu d rRo

i fjp ;

oL= gekj; nifud thou e; ,d egRoil.ki Hkfedk fuHkkr; g; o gekj; 'kjhj dk diMk; l; <du; d; l kFk ric; ¼V¼V½ d; : i e; vkJ; çnku dj eu"; dh cfu;knh t : jrk; dk ijk djr; gA l jy 'kOnk; e] oL= dk vk'k; diMk ;k cu; g; oL=k; l; g] ftUg; /kkx; ;k l; r d; vUrx;Fku }kjk fufe; diMk] l; cuk tkrk gA bu /kkxk; dk dikl] Åu] j'ke] fLYd vkj fLFkFvd /kkxk; d; mRiknu d; fy, fofHkUu l;krk; l; çklr fd;k tk l;drk gA

oL=k; dk bfrgk l] b; i- 5000 l; vf/kd ijkuk g] [knkbi e; ik, x, fyuu vkj Åuh oL= ekuo fuok l d; lcl; vkfne vo'k"kk; e; l; ,d gA le; d; l kFk] fofHkUu lenk; k; vkj l;L—fr; k; u; viuh viuh igpku LFkkfir djuh vkjHk dj nh] vkj l;Hkor% ;gh og le; Fkk tc oL=k; u; fMtkbu d; }kjk ykxk; dh cfu;knh t : jrk; dk ijk dju; d; ckn vkj ykxk; vkj l;cf/kr oLrvk; dk nkuk; dk l;tku; e; ,d egRoil.ki Hkfedk fuHkkb; g; A

j;xbj] /kkxk; d; vUrx;Fku e; gjQij] #ik; vkj : ikdu; d; vdu dk LFkkukrfjr dju; d; rjhd; vkfn dk viukdj rFkk fofHkUu l;exh d; mi; kx vkj ,d diM; dh lrg ij vydj.k d; : i e; mUke oLrvk; dk tkM;dj vy—r vkj l;tkoVh diMk r; k; j fd;k tkrk gA oL= cuk; dh bu fof/k; k; vkj çfØ;kvk; dk oL= fMtkbu dgk tkrk g; vkj tk ykx l;kn; l; l;onu'khyrk] l;cf/kr çfØ; k; vkj t : jrk; dh Li"V le> d; l kFk bl rjg d; l;tkoVh oL= cuk; dk dk; l; djr; g; mUg; oL= fMtkbuj dgk tkrk gA

oL= fM t kbu d rRo

bdkb 1

oL= m | kx

dk i fjp ;



oL= fm tkbu d rRo

v/;k; 1

oL=k dk l f{klr voykdu

1-1 oL=k dk bfrgkl

fd l h fo" k; dk bfrgkl m l dh i" BHkfe vkj ekuo tkfr l l lcf/kr rRok ij fuHkij d jrk gA ge l Hkh diM igur g] yfdu D; k geu d Hkh l kpk g] fd diM ge'kk , l ugh fn[kr FkA le; vkj vof/k cny x, g] vkj blfy, ifjoriu dh ygj e , d le) fojklr vkj oL=k dk , d fo'kky bfrgkl r; kj dju e vud l= xFk g, gA vc ge oL=k d bfrgkl d ckj e irk dju d fy, dkf'k'k d j r gA

bl v/;k; e] ge ;g tkuxi fd oL=k dk vkjHk d l vkj dgk gvk vkj ;g viui vk/kfud l Ldj.k e] ft l dk ge vkt viui nfud thou e mi ;kx dj jg g] fd l çdkj ifjofr r vkj l'kkf/kr gvkA

oL= {k= fm tkbu vkj çk|kfxdh d , d HkO; bfrgkl dk l f{klr d jrk gA diM iguu dh t : j r i j h r j g l , d ekuoh; fo'k"krk vkj vf/kdk'k ekuo l H; rk vk dk , d igy gA ekuofoKkfu; k dh ekuuk g] fd tkuo j dh [kky] iÜk vkj Nky vkPNknuk d igy : i Fk] ftudk l nh] xeh vkj vU; tyok; ifjoriu l ekuo 'kjhj dh j{kk dju d fy, mi ;kx fd; k x; kA

oL= ekuo bfrgkl dk , d vfHkUu fgLl k jgk g] vkj vDl j blu , d l H; rk }kjk fodflr miyC/k l kexh vkj çk|kfxd; k dk çrfcfcf fd; k gA [knkbi d ek/; e l çklr oL= vo'k"ka d v/; ; u vyx&vyx eyk dk n[ku dk lcl vPNk rjhdg g] tk , d fo'k"k l H; rk l lcf/kr le; vkj lL—fr d ckj e cgr dN crkrk gA

d½ [knkbi d ek/; e l çklr oL= vo'k"k % ekuo fuokl d lcl çkphu vo'k"ka e /kx:] diM vkj drkbi vkj cukbi d midj.k ik; x, gA fel e yxHkx 5000 o" k bl k ioi d fyuu oL= ik, x, gA LdifMufo; k vkj fLoV-tjyIM e ioi dkL; ;x l Åuh diMk Hkh ik; k x; k gA , d jtr dy'k l tM dbi rdyk] vkj dikl d VdMk dh [kk t] crkrh g] fd bfrgkl e yxHkx ikp gtkj l ky igy] gMlik dh l H; rk d ykx dikl dh drkbi vkj cukbi l ifjfr FkA ofnd l kfgR; e drkbi dh fof/k vkj cukbi d fy, fofHkUu l kex; k d mi; kx d dbi l d r vkj l nHk ik, tkr gA phu d bfrgkl e de l de 1000 b-i- l j'keh oL=k dh xgjh tM ikbi xb gA

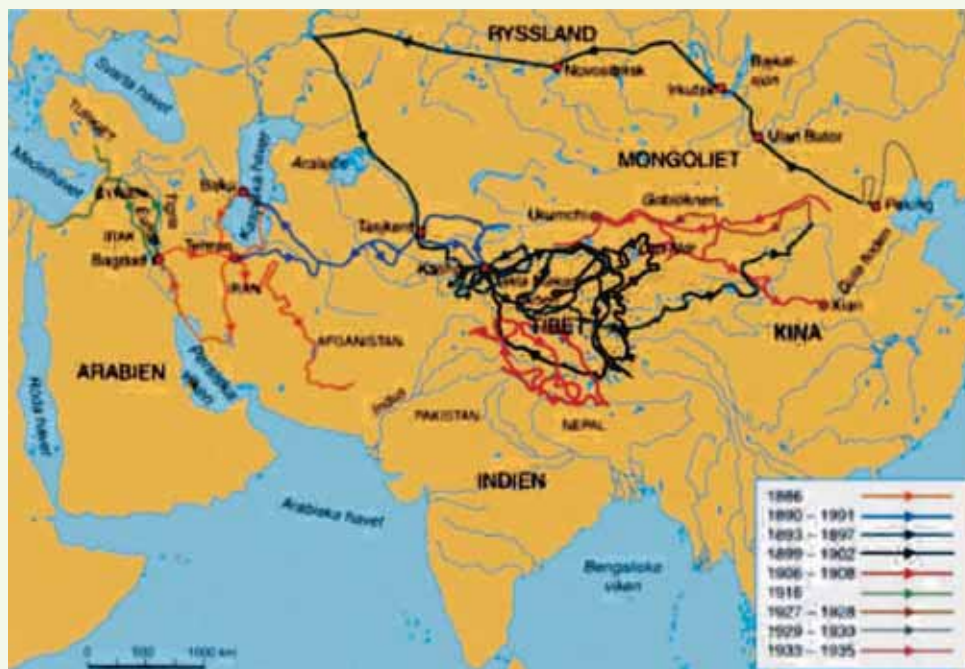
(<http://www.factmonster.com/encyclopedia/society/textiles-history.html>. dN rkjh[kk dk l nHk d : i e fy; k x; k g%A



oL= fM t kbu d rRo

[k½ 0;ol k; d ek/;e l oL= Kku l k>k dju] l puk vkj l kn; l lonu'khyrk d l Øe.k d l l kF&l kF fofHkUu rduhd k d vknku&çnku u oL= k dk dbi ek; uk e le) vkj ifjofr fd;k gA vU; n'kk d l l kF Hkkjrh; oL= k dk 0;kikj bl k iol n l jh 'krkOnh e 'k: gk x;k FkkA fel dh dck e ik, x, Nig, vkj jx çfrjk/kh jxkbl d diMk dk l xg] Li"V : i l e/; ;xhu dky e fel e Hkkjr l l rh oL= k d fu;kr dk n'kkirk gA

çkphu nfu;k e oL= m l kx dk 0;kikj e[; : i l j'ke ekx l f l Yd : V½] d j k j gkrk Fkk tk i j; ,f'k; e Qyk gvk l n j iol d l kF Hke/; Hkfe dk tkMu okyk ,d ?kekonkj ekx l FkkA ;g j'ke ekx l 5000 ehy rd Qyk gvk Fkk vkj bl 114 bl k iol d v l i k l phu e gku j k t o'k d n k j k u L F k k f i r f d ; k x ; k F k k] ;g e k u o f u f e i r e k y] l H ; r k v k j f o ' o k l k d f o r j . k d k , d e g R o i . k f g L l k F k k A



j'ke ekx l dk uD'kk

(<http://www.china-tour.cn/China-Maps/Ancient-Silk-Road-Map.htm>)

13oh l nh e] Hkkjrh; j'ke dk if'peh n'kk l l el ky d fofue; d fy, mi; kx fd;k tkrk FkkA 17 oh l nh d vir rd] fcfV'k bl LV bfM;k diuh u Hkkjrh; j'ke vkj cxky] fcgkj vkj mMh l k d y k d f ç; c g r j h u e y e y d d i M l f g r f o f H k U u ç d k j d v U ; l r h o L = k d v U ; n ' k k d f y , f u ; k r ' k : d j f n ; k F k k A ; j k f i ; u k d v k u d d k Q h i g y l H k k j r] p h u] t k o k v k j f Q y h i h l d c h p N i h g b l N h V k d k ç p y u F k k A



oL= fm t kbu d rRo

e/; ;x d i le;] vf/kdk'k ykx lk/kkj.k diM i ln d jr Fk] tcf d] j'ke vkj fyuu t l h
egxh lkexh dk jkt l h vkj lekt d i vehj ykxk d i }kjk ç;kx fd;k tkrk FkA 14oh l nh
d i nkjku] jxkbi vkj flykbi d i {k= e dkQh çxfr gb] ft l d i ifj.kkeLo: i i j if'peh ;jki
e Q'ku dh ykdfç;rk c< xbA

[kknh ,d gkFk l dkrk vkj gkFk l cuk tku okyk diMk g] Hkkjr e fufeir bi cgn
ykdfç; diM u Lo&jktxkj ij tkj fn;k gi vkj Hkkjr dh vktknh d i vknkyu dk ,d
çrhd cuu d i lkFk&lkFk m l dk ,d lfØ; fgLlk cu x;kA ckn e vk/kfud gFkdj?kk diMk]
vfLrRo e vk;k] blei Hkkjr e gFkdj?k ij cu x, diM d i fy, e'khu ij dkrk x;k /kkxk
Hkh 'kkfey FkA



[kknh & gkFk l dkrk gvk l r] pj[kk ij egkRek xk/kh }kjk fufeir

x½ **vk|kfxd Økfr** % bfrgk l e] m l le; dk] ft l e: dbi ,l h e'khuk d i vkfo"dkj fd;k
x;k] ftUgku m|kxk d i fy, mPp xfr vkj mRiknu dh ek=k dk c<ku e enn dh] m l
vk|kfxd Økfr d i uke l tkuk tkrk gi %fofHkUu bfrgk l dkj d i vu l kj le; vof/k yxHkx
1760 l 1840 rd½A vk|kfxd Økfr u bfrgk l e ,d egRoil.k ifjor i fcn d i fyfio)
fd;k(ft l u nfud thou d i çR;d igy d i fd l h u fd l h rjg l çHkkfor fd;k x;k FkA
vk|kfxd Økfr d i nkjku] diM d i fuek.k dk iupDdh vkj Hkki bitu }kjk lpkfyr e'khuk
d i lkFk e'khu—r fd;k x;k FkA mRiknu NkV d iVh vk/kkfjr mRiknu l ifjofr gkdj
l;kftr lxBu d i vk/kkj ij fd, tku oky cM ieku d i mRiknu e ifjofr gk x;kA bl d i



oL= fM t kbu d rRo

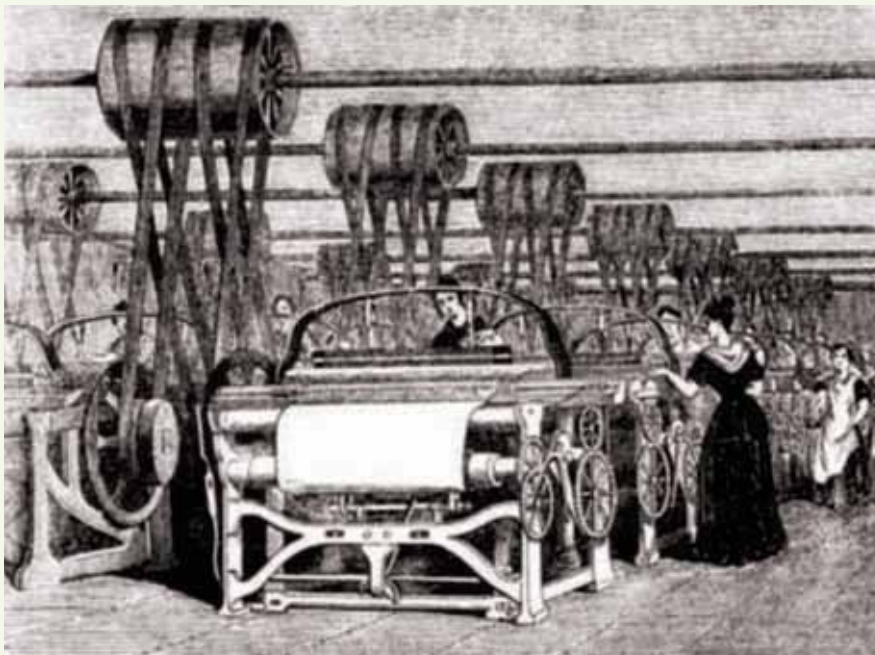
I kFk&I kFk] gkFk I diMk dk mRiknu Hkh tkjh jgkA

drkbi ifg, vkj gFkdj?kk tih vk/kfud e'khuk dk vk|kfxd Økfr di nkjku foLrkj gvk FkkA oL= fofuek.k ,d lxfBr m|kx e'cny fn;kA mih le; fd, x, vuid u, uokpkjk ui xV fcVu e' oL= m|kx di vk|kxhdj.k dk urRo fd;kA vk|kfxd Økfr di nkjku fufe'r oL=k ui xV fcVu }kjk fd, tkui oky; fu;kir di ,d cM fgLI dk xBu fd;kA dikl di vykok Åu mI le; fu;kir fd;k tkui okyk e[; j'kk FkkA

vk|kfxd Økfr di nkjku diMk di mRiknu e' vk/kfud uokpkj] fuek.k vkj fM tkbu çkjHk g,A bue' u, ifg;] dj?k vkj drkbi çfØ;k, 'kkfey g] ftUgku bl c<r m|kx di ,d cgrj Hkfo"; di fy, oL= fuek.k di : i dk ifjofrir dj fn;kA

bl vof/k di nkjku] vuid vkfo"dkj fd, x, vkj ; mRiknu dh xfr dk c<ku dh vkj yf{kr FkA mue' I dN e' 1733 e' fufe'r flykx 'kVy] flyk;j ,o c,fcu ç.kkyh vkj 1738 e' t,u okbV vkj ybil i,y }kjk fufe'r jkyj fLifux e'khu 'kkfey glA

ybil i,y ui ckn e' 1748 e' dkfMix e'khu cukbi vkj drkbi tih Hkh 1764 e' cukbi xbA 1771 e' fjpM vkdi kbV }kjk okVj Ye dk vkfo"dkj fd;k x;k Fkk] vkj 1784 e' ,MeM dkVj kbV }kjk fo|r dj?k dk vkfo"dkj fd;k x;k FkkA



vk|kfxd Økfr di nkjku ,d diMk m|kx dk fp=.k



oL= fm t kbu d rRo

(<http://www.rawrdenim.com/dictionary/t/textile-industry/>)

?k½ vk/kfud oL= m|kx % vk|kfxd Økfrdkfj; k u iijh nfu; k dk çfjr fd; k vkj ifjoriu rFkk l'kk/ku gkuk tkjh jgkA 19ohi lnh ei oL= fueki.k ei l/kkj d ckn flykbi e'khu vflrRo ei vkb: FkhA

bl pj.k d nkjku vf/kdk'k oL= m|kx ufn; k d fudV LFkkfir fd, x, Fk] D; kfd ty gh e[; l'pkyu cy Fkka Hkki bitu d vkfo"dkj d ckn] lex ifj—'; iijh rjg l cny x; kA 20 oh lnh d ckn d pj.kk ei oL= m|kx ei mi; kx fd, tku oky 'kVy vR; fkd fodflr vkj d'ky FkA vkt gekj ikl okVj tV vkj fcuk 'kVy d dj?k g] ftUgku cM: ieku ij mRiknu {kerk dk ,d cgr d'ky Lrj dh xfr çnku dh gA vkt dh nfu; k ei gekj ikl iijh rjg l i. k Lopkfy ç. kkyh vkj Lor= : i l LFkkfir cM: dkj [kku g] tk oL= mRiknk d dPp eky d pj.k l ydj r; kj mRiknk rd dk lHkkyu ei l{ke gi(bug , dh—r fofueki.k bdkb; k (Intergrated manufacturing unit) dgk tkrk gA

oL= m|kx ei bu vk/kfud rduhdk] byDV, fuDl vkj uokpkj k u [kn dk] lHkh çdkj d diM: dh ,d çfr; kxh] de dher ij m|kx }kj k i'kd'k vkj dYiuk l iij dh fm tkbuk d fueki.k ei l{ke cuk; k gA

(<http://www.nyfashioncenterfabrics.com/history-of-fabric-and-textiles.html> bfrgkl ei rkjh[kk vkj vkfo"dkj d fy, lnhHkr fd; k x; k gA

vH; k l

1- fuEufyf[kr d ckj ei l f{klr fVli.kh fy [k

d½ vk|kfxd Økfr

[k½ j'ke ekx: % f l Yd : V½

x½ , dh—r fofueki.k bdkb; k

?k½ [kknh

¾ vk/kfud oL= m|kx

2- fjä LFkkuk dk Hkji&

d½ fo l r dj?kk dk vkfo"dkj 1784 ei----- }kj k fd; k x; k Fkka

[k½ [kknh ,d ----- -- vkj gkFk l cuk gvk] vkj vR; fkd ykdfç; diMk g tk ----- ei vflrRo ei vk; k vkj Lo&jk t xkj ij tkj fn; kA

x½ çkphu fo'o ei oL= m|kx dk 0; kikj ei; : i l ----- ij gvk] tk iij , f'k; k ei ,d ?kekonkj iFk gi ft lu: Hke/; dk l n j ioi d l kFk tkM: j [kk gA



oL= fM t kbu d rRo

?k½ drkb: ifg; vkj gFkdj?kk t:lh vk/kfud e'khu: -----d nkjku fujrjrk e: vkbA

3½ bl pj.k d nkjku buel l: vf/kdk'k m|kx ----- d fudV LFkkfir fd, x, Fk] D;kfd ikuh e[: çj.kk 'kfä FkhA

1-2 oL= m|kx

oL= m|kx okLro e: D;k g\ D;k ;g doy gekj: nfud thou e: igu: vkj mi;kx fd, tku oky: [kcljr oL=k d: ckj: e: g: ;k ;g bl l: vf/kd g! vkb, ge ,d lex: : i e: oL= m|kx d: rF;k vkj lg|c) (Corretated) m|kxk dk irk yxkr: gA

bl [kM e:] ge fo'kky diMk m|kx d: rF;k dk çdV dju: dh dkf'k'k djx:A

oL= m|kx %& oL= nfu;k d: lcl: ijkku m|kxk e: l: ,d g: vkj vf/kdk'k n'kk dh jk"Vh; vFkO;oLFkk e: bl dh çe[k mifLFkr gA vkt Hkkjr e: diMk {k= —f" k d: ckn nli: lcl: cM: {k= d: : i e: ektin gA diMk m|kx cM: ileku: ij diMk vkj oL= mRiknk d: mRiknu %fM tkbu vkj fofuek.k½] forj.k] vkj [kir dk n'kkirk gA ble: fofHkUu {k= 'kkfey gA

oL= m|kx d: foHkx%

- 1- mnkgj.k d: fy, oL=k d: fuek.k d: fy, dPp: eky dh vkifr! çk—frd &dikl] Åu] j'ke vkfn vkj ekuo fufel&i,fy, LVj vkj uk; y,u i,fyej vkfnA
- 2- j'kk vkj /kxk m|kx &fofHkUu çdkj d: j'kk d: lfeJ.k vkj /kxk cuk: l: lcf/kr gA
- 3- diM& mnkgj.k d: fy,] 0;kid vkj l:dh.k cu@Ni@vy—r diM] xj cu: g, diM vkj cuk gvk (Knitted) diMk vkfnA
- 4- dkyhu vkj vkluk m|kx d: fuekirk fofHkUu mi;kx d: fy, fofHkUu çdkj d: Q'k dk vkPNknu (Covering) cukr: gA
- 5- oL= çfd;k vkj ifj"dj.k& bl vuHkx e: vfre mi;kx d: vu|kj lgh ,glkl vkj dk;{kerk d: y{; dk gkfly dju: d: fy, jxkb] diM: dk ifj"dj.k] ifd;k vkj diM: ij fd;k jklk;fud mipkj 'kkfey gA
- 6- oL= e'khu&r;kj dju: okyh e'khu: dk nk e[: {k=k& gFkdj?kk vkj ikojye e: foHkft r fd;k tk ldrk gA
- 7- oL= mRikn forjd vkj vkifr:drk] vk;krd vkj fu;krdA

d½ oL= m|kx dk egRo % ;g miHkæäk dh ,d vke vkj lcl: cfu;knh t: jr dk ijk djrk g] vkj ;g yxkrkj of) cuk, j[ku: d: }kjk x.koUkk e: l/kk yku: d: fy, cgr egRo j[krk



oL= fm t kbu d rRo

gA oL= m|kx gj Lrj ij] dkQh eY;oni/ku d| lkFk dPp| eky d| mRiknu l| yidj r|;kj mRiknk| d| fuek.k rd d| fy, ,d vkRefuHkj m|kx d| :i e| ,d il.k fLFkfr cuk, j[krk g| ;g fd l| h Hkh n|'k dh vFkO;oLFkk e| egRoil.k| ;kxnu n|rk gA

ik'kkdk| d| vykok] oL= ,d ifjokj dh lcl| vke mi;kx l| yidj fofHkUu vk|kfxd t :jrk rd] db| vU; m|' ;k| dk Hkh ijk djrk gA ?kjk e| budk mi;kx in] dkyhu] d|'ku doj] dkyhu] rkfy,] pknj] vkfn ?kj d| lkeu d| :i e| fd;k tkrk gA vk|kfxd mi;kx e| ekVj okgu vkj fpfdRlk t|l| vuç;kx] fo'k" k l|j{kkRed diM| vkj —f" k diMk vkfn fofHkUu çdkj d| mi;kx 'kkfey gA çn'ku vkj mi;kfxrk bu vk|kfxd oL=k| dh e| ;vko';drk,] g] vkj blfy, mue| l| T;knkrj dk rdudh oL= d| :i e| l|nfHkr fd;k tkrk gA

le; d| lkFk] ykxk| dh [kp| dju ;kx; vk; e| of) vkj çk|kfxdh d| {k= e| gk jg| uokpkjk| (Innovation)dh otg l| oL= m|kx e| dkQh fodkl gvk gA

[k½ **Hkkjr e| oL= m|kx** % Hkkjr h; oL= m|kx gekj; n|'k e| viuh rjg dk ,dek= m|kx gA Hkkjr d| lcl| çkphu m|kxk| e| l| ,d] oL= m|kx diy vk|kfxd mRiknu dk 14% n|rk g| vkj diy fu;kir e| yxHkx 30% dk ;kxnu djrk g| rFkk ;g —f" k d| ckn n|lj lcl| cMk jktxkj mRiknd gA

Hkkjr h; oL= m|kx dPp| eky vkj diMk fofuek.k i"BHkfe] fo'k" k :i l| dikl dh [krh d| ,d fo'kky l|lk/ku d| lkFk nfu;k e| lcl| cMk gA

vk t d| ifj—'; e| Hkkjr h; diMk m|kx e| pkj çe[k {k= g%

- ◆ oL= fey| (Factories)
- ◆ fctyh d| Lopkfyrdj?k
- ◆ gFkdj?kk vkj [kknh
- ◆ ifj/kku

x½ **of'od (Globe) mRiknd] vk;krd vkj fu;kird** % [krh dh lgh fLFkfr ;k ½feêh] ikuh] tyok;| vkfn½ d| miyC/k gku d| dkj.k dN n|'k dPp| eky d| mRiknu e| fo'k" kK gA

mnkgj.k d| fy, %

- ◆ çe[k dikl mRiknd n|'kk e| & phu] Hkkjr] vejhdk] ikfdLrku vkj ckthy 'kkfey gA
- ◆ Hkkjr] ckXykn|'k vkj phu çe[k tV mRiknd n|'k gA
- ◆ çe[k j|'ke mRiknd n|'kk e| phu] Hkkjr] vkj Fkbb|yIM 'kkfey gA

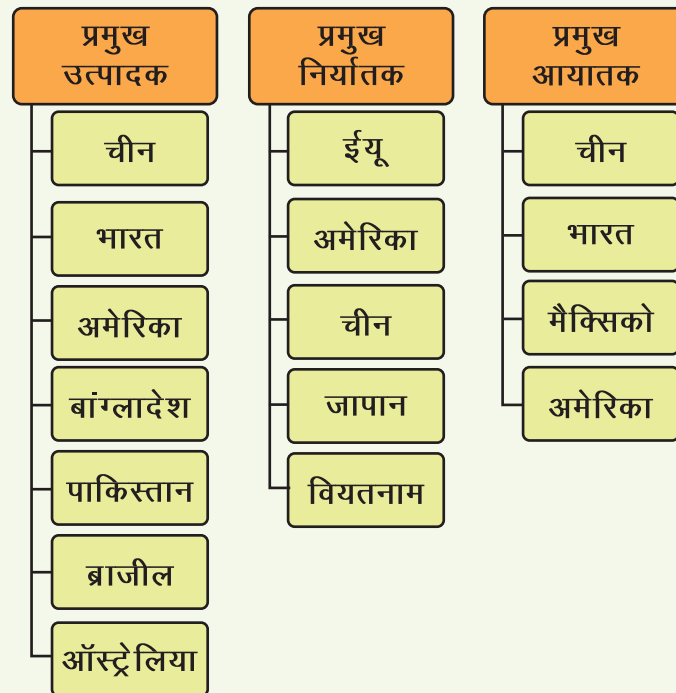


oL= fm t kbu d rRo

◆ çe[k Åu mRiknd n'kka ei v,LVfy;k] U;|thyIM] vkj phu 'kkfey gA

vk;krd % ,l n'k tk ,d fuf'pr lkexh@mRikn dk i;kIrk ek=k ei fuek.k ugh dj ldr vU; n'kka l bl [kjhnr g] mUg vk;krd dgk tkrk gA dN çe[k oL= vk;krd n'kka ei ;jkih; l?k] vejhdK] phu] tkiku] fo;ruke vkfn 'kkfey gA

fu;kird % ,l n'k tk dN lkexh@mRikn dk vko';d i;kIrk ek=k l vf/kd mRiknu djr g vkj t:jr l t;knk eky dh vU; n'kka dk vkifr dj ldr g] mu n'kka dk fu;kird dgk tkrk gA çe[k diMk fu;kird n'kka ei phu] Hkkjr efDldk] vkj l;ä jkT; vefjdk vkfn 'kkfey gA



(<http://www.businessvibes.com/content/textiles-industry>)

vH;kI

1- fuEufyf[kr d ckj ei lf{kIrk fVli.kh fy[kk

d½ vk;krd vkj fu;kird d chp virjA

[k½ oL=k d of'od (Globe) mRikndA

x½ oL= m | kx d fofHkUu {k=A

?k½ Hkkjr ei oL= m | kxA

3½ Hkkjr ei oL= m | kx dk egRoA



oL= fm t kbu d rRo

2- lgh ;k xyr

d½ Hkkjr dı oL= {k= —f”k dı ckn nılj k lclı cMı LFkku ij gA

[k½ çe[k tV mRiknd nı’k gı&bMkuf’k;k] ckXyknı’k vkıj fo;rukeA

x½ oL= çfØ;k vkıj ifj”dj.k eı jıxkb] dıMı dk ifj”dkj] çlLdj.k vkıj vfıre mı;kx dı vu|kj mı;ä vglkl ;k dk;{kerk dk çklr djuı dı fy, dıMı ij fd;k jklk;fud mipkj Hkh ‘kkfey gA

?k½ vkı|kfxd ç;kıtu dı fy, mı;kx fd, tkuı oky; dıMı dk vke rkıj ij rdıhıh oL= dgk tkrk gA

¾ oL= fo’o dı u, m|kxk eı lı ,d gı vkıj dbı nı’kkı dh jk”Vh; vFkO;oLFkk eı blıdh m flFkfr mruıh çe[k ughı gA

1-3 oL= l kexh vkıj çfØ;k,ı

oL= m|kx fofHkUu dPpı ekyk dı l kFk dke dırk gı vkıj nıljıh vkıj bu dPpı ekyk dk rı;kıj mRiknk eı cnyuı eı enn djuı dı fy, dbı vyx&vyx çfØ;k,ı gA

bl v/;k; eı ge nkı Hkkxk eı oL= l kexh dı ıgyıvkı vkıj çfØ;kvı dı ckı eı tkuıxıA

Hkkx % 1

oL= l kexh

jı’kk pj.k eı dPpı eky dı fofHkUu çdkj gıA

jı’kı vkıj /kkxı

jı’kk vkıj /kkxk % oL=kı eı mı;kx dh tkuı okyh l kexh dk çk—frd vkıj ekuo fufeır jı’kk eı fofHkft r fd;k tk l drk gı vkıj vkxı blı lıY;ıykıt] çkVhuı flıFkfVd vkıj ııu#Rıkfnr rııvkı eı ckVı x;k gA

çk—frd jı’kı

ekuo fufeır jı’kı

1 lıY;ıyftd

3 flıFkfVd ¼—f=e½

2 çkVhu

4 lııu#Rıkfnr



oL= fM t kbu d rRo

d½ IY; y,ft d j'k% bu rirvka dk çk—frd ik/ka] cht vkfn l fudkyk tkrk gA uhp lcl vke IY; y,ft d j'kka dk mYy[k fd;k x;k gA

ckLV % ik/ka l fudky x, rirvka dk ckLV rir dgk tkrk gA mnkgj.k d fy, lu] iVlu] tV vkj jehA

dikl % dikl mÙke ouLifr cht l çklr IY; y,ft d j'kk gkrk gA ik/k m".kdfvc/kh; {k=k e mxk, tkr gA bl dh mit Hkkjr e vkjHk gb Fkh(Hkkjr e lcl ij kuk çyf[kr mi;kx ½ekgutknMk½ lh- 3500 bl k io dk gA

[k½ çkVhu j'k % fofHkUu i'k lkrk l çklr rirvka dk çkVhu j'kk dgk tkrk gA

j'ke % j'ke d dhM d ykok }kjk viur dkdu cuk d fy, lfor ,d lrr çkVhu rir dk j'ke dgk tkrk gA c,Ech 'kkekj çtkfr;k yfVu% 'kgr d iM d j'kedhV½ dk j'ke lcl vf/kd mitkbl tkur okyh çtkfr gA j'ke d rir l lnj] mR—"V] pednkj diM dk mRiknu fd;k tkrk g] ft l j'keh oL= dgr gA j'ke dk mRiknu phu e bl k io 2700 'krkCnh e fodflr fd;k x;k FkA j'ke d dhMka dk ikyu vkj mud dkdu l j'ke d /kx d mRiknu dh çfØ;k dk j'ke mRiknu dgk tkrk gA

Åu % HkM ;k vxkjk cdjh] ÅV ;k vYikdk dh Ropk dk <du oky mÙke] eyk;e] j'kka l fudky x;k rir Åu dgyrk gA Åu çkphu dky l ,d ykdfç; j'kk jgk g vkj Åu vkj n/k d fy, HkMka dk ,d >M d : i e iky x;k FkA

x½ ekuo fufeir ;k —f=e ¼f l FkfVd½ j'k% —f=e j'k ç;kx'kkyk fu;f=r fLFkr;k vkj jklk;fud çfØ;kvka d vinj il.k —f=e lkexh l fudky x, i,fyej gA —f=e j'kka dk i,fyej dg tkur oky NkV v.kvka l fufeir fd;k tkrk gA bu i,fyejka d fy, dPpk eky T;knkrj iVkdFedYI l vkrk gA —f=e j'kka d fofHkUu mnkgj.k g] mnkgj.k d fy, uk;y,u] i,fy,LVj] XykI uk;y,u vkfnA

?k½ iu#Rikfnr j'k % iu#Rikfnr j'k Hkh ekuo fufeir j'k g] yfdu bl ekey e ;g ,d fufeir iu#Rikfnr IY; y,ft d j'kk gA mnkgj.k d fy, j;ku IY; ykt l cuk;k tkrk gA ;g ,d çk—frd j'k d ,glkl vkj cukoV dk vudj.k djrk g vkj çk—frd j'kka d leku x.kka dk vf/kdkjh gk l drk gA

Hkkx % 2

oL= ç l Ldj.k oL= fueki.k ,d çel[k m|kx gA ;g rhu çdkj d : ikrj.k ij vk/kkfjr g] igyk j'kk l /kxk] fQj diMk] mld ckn oL=] bld ckn bl l ik'kkd ;k vU; mRikn r; kj fd, tkr gA



oL= fm t kbu d rRo

drkbi vkj diM cukui pj.k ei mRiknka dh ,d foLr'r Ji[kyk di mRiknu di fy, jixkbi ¼jix½ Nikbi vkj ifj”dj.k cfØ;kvka l ;fXer vU; cfØ;kvka di l kFk db. cfØ;k, i miyC/k giA nli j; ‘kCnka ei ge dg l dr; gi fd oL= m|kx di Hkhrj oL= m|kx dh fofHkUu cfØ;kvka ij vk/kkfjr vU; m|kx fufgr giA ekuo fufeir vkj çk—frd ji’kka di çlLdj.k ei ‘kkfey çk|kfxdh vkj jlk;u viui vki ei vyx vkj tfVy giA

vc ge ,d ri;kj oL= mRikn di fueki.k ei vke rkj ij lcl vf/kd mi;kx dh tkui okyh cfØ;kvka dk dne nj dne le>ui dh dkf’k’k djri giA

- 1 ji’kk pj.k ei ‘kkfey cfØ;k, i
- 2 /kkxk cukui pj.k ei ‘kkfey cfØ;k, i
- 3 diM di fueki.k ep ij cfØ;k, i
- 4 diMka ij ifj”dj.k
- 5 jixkbi dh cfØ;k, i vkj diM ij Nikbi

d½ ji’kk Lrj ij cfØ;k % /kkxk ;k l r cukui di Øe ei] dPpi eky dk l kQ ji’k di : i ei cnyui ei fofHkUu pj.k ‘kkfey gi A

- 1- vkVkb. ¼fxfux½ % bl cfØ;k ei ji’kka dk l kQ vkj eyk;e cukui di fy, ch tkj iÜkka vkfn dk fudkyk tkrk giA bl cfØ;k dk ç; kx T;knkrj lY; y,ftd ji’kka ij fd;k tkrk giA bl vkVkb. e’khu ij fd;k tkrk giA
- 2- l fEeJ.k % l fEeJ.k dk eryc gi feykukA bl pj.k ei vU; ji’kka di l kFk dikl di feJ.k cukui di fy, l kQ rirvka dk fofHkUu vU; ji’kka di l kFk feyk;k tk l drk giA l fEeJ.k di dkj.k diM ei nkuka rirvka di xj.kka ei ‘kkfey gkxA
- 3- /kukbi ¼dkfMx½ % /kukbi og pj.k g] ft lei rirvka dk ,d <hyh yV cukui di fy, /kukbi e’khu l xtkjk tkrk giA ;g ji’kka dk l jif[kr dju vkj ,d /kkxk di xBu dh ri;kjh dk igyk pj.k giA /kukbi cfØ;k /kukbi e’khuka ij dh tkrh giA
- 4- l kQ djuk ¼dkfEc½ % dkfEc dh cfØ;k ei NkV; ji’kka dk yC; ji’kka l vyx fd;k tkrk giA ;g cfØ;k doy mu ji’kka di l kFk dh tkrh gi ftul ,d pednkj vkj etcr diM cukui dh vko’; drk gkrh giA
- 5- [khpuk ¼Mkbx½ % ;g cfØ;k ,d cgrj l r xBu di fy, ji’kka dk l h/kk dju di fy, dh tkrh giA

[k½ /kkxk pj.k dh cfØ;k, i %

- 1- drkb% bl cfØ;k dk ç; kx /kkxk cukui di fy, fd;k tkrk g] bl cfØ;k ei ji’kk pj.k l ,d /kkxk cukui di fy, fofHkUu çk|kfxd;k dk mi;kx fd;k tkrk giA



oL= fM t kbu d rRo

- 2- /kkxı dk ,d cgrj 'kfä vkj cukoV nuı dı fy,] bı çfØ;k eı vDıj nk ;k nk lı vıf/kd /kkxı dk lıFk eı ?kek dj yiıVı tkrk gA dN ekeyı eı ;g drkbi dı ckn fd;k tkrk gA
- 3- xıfıx /kkxı dk ,d fo'k"ı yk rı= dı ek/;e lı xıtkjuı dh çfØ;k gı tı /kkxı dk fpduk vkj mTtoy cukı dı fy, NkVı vkj Qıyı gıvı rırvı dk tıyrk gı A

x½ dıMı dı fuek.k pj.k dh çfØ;k,ı

cukbı&dıMı dk fuek.kı ,d dıMı dı xBu dı fy, /kkxı ;k lı r dı ,d nıjı dı lıFk vırxıFku (Interlacting) dh çfØ;k dk cukbı dgk tkrk gA ft l e'khu ij cukbı dh tkrh gı m lı dj?kk dgk tkrk gA

vunı?;ı v{k (Longitudianal Axiı)eı rııkr /kkxı dk rkuk dgk tkrk gı] vkj {kfrt v{k (Horizotal Axis) eı yxk, /kkxı dk ckuk dgk tkrk gA

rkuk dh rı;kjh dh çfØ;k okfiıx ;k chfex dgıyrh gA

rkuı dk etırh çnku dıı dı fy, rkuk /kkxı ij LVkpı dh ,d ijr yxkbi tkrh gı] ft lı lıkbftıx dıı gı A

cukbı ı dj?kı ij rkuk /kkxı dı ,d ckj 0;ofLFkr gı tkuı dı cknı] cukbı dh çfØ;k vkjHk dh tkrh gA cukbı çfØ;k dı nkııu dj?kı eı rhu çkFkfed xırfıf/k;ı gıırh gı ft Ugı 'kfMıx ¼rkı dı /kkxı dı çp dı vııjky lı ckuı dı /kkxı@lı r dk çfo"V djuk½ fıfdıxı ¼rkuk ckuı dı çp lı ckuk /kkxı@lı r dı çfo"V gkuı nuı dı fy, lı r dk ckVrk gı] vkj çfVıx&vı ı dıMı dh cukbı dı fuek.k dı fy, ckuı dh dne nj dne çfo"V dk ijk dırk gı½ dgk tkrk gA ,d dıMı dh cukbı dı fy, bu rhu pj.kkı dk ckj&ckj nkııı;k tkrk gA /kkxı dh çk—frd voLFk eı ıjııkbı dı fcuk½ m l dı }kjk cuı xı dıMı dk Hkjk ıxı½ dıMı dgk tkrk gA

?k½ ifj"dj.k&oL=kı dk ç lıLdj.k ı b l dı ckn Hkjkı ıxı½ dıMı dk vıre mı;kı vkj oL= fMtkbu dı ekeyı eı okfNr :ı çnku dıı dı vı/kk jı ifj"dj.k dı fıfHkuı pj.kkı dı rgr yı tı;k tkrk gA

ıgyı dne ij dıMı dk uje vkj 'kk"kd cukı dı fy, dıMı lı vırfjä LVkpı dk nj dıı dı fy, fMıkbftıx dh tkrh gA

çfØ;k dı vıyı pj.k dk fı?k lıkbı ıLdkmfjıxı½ dgk tkrk gı(;g ,d jk lı;kıud çfØ;k gı tı çk—frd eke vkj dıMı dı nk"kkı dk fıdkıyrh gA

b l dı ckn dıMı dk fıııtu ıCyhfıpxı½ dı fy, yı tı;k tkrk gı] ;g dıMı dk lıQn vkj pednkı cukrk gA



oL= fM t kbu d rRo

Irg dk fpduh vkj pednkj cukui di fy, dN lrrh diMk ij dkfLVd lMk dk 0;ogkj
(Treatment) fd;k tkrk gA

^{3 1/2} jixkb vkj Nikb çfØ;k,

jixkb % fMlkbftix vkj Ldkmfjix dh çfØ;kvk d ckn diM ij Mkbix ;k jixkb dh tkrh
g] ;g çfØ;k diM ij ,d fo'k'k jix yxku di fy, dh tkrh gA cktkj e jixkb di mĩ';
di fy, fofHkUu jix vkj jlk;u miyC/k gA

Nikb % jixkb iij diM ij ,d leku jix NkMrh g] tcfD Nikb diM di doy p;fur
{k=k ij gh ,d fuf'pr ueu di : i e jix dk ç;kx djrh gA Nikb fofHkUu jixk e dh tk
ldrh g vkj diM dh lrg ij lnj fMtkbu cukrh gA

—f=e ¼f lFkfvD½ j'kk dk ç lDj.k½ —f=e j'ke fofHkUu jlk;uk l fudky tkr g]
blfy, jixk dh jlk;fud ljpuk dikl vkj vU; çk—frd j'ke di fy, mi;kx fd, tku
oky jixk dh vi{kk vyx gkrh gA

vH;k l

1- fuEufyf[kr di ckj e l f{klr fVli.kh ¼60 l 80 'kCn½ fy[kA

d½ iu#Rikfnr j'ke

[k½ Åu

x½ lY;ly,ft d j'kk vkj çkVhu j'kk di chp virj

?k½ drkb ¼fLifuix½

^{3 1/2} cukb

p½ jixkb

2- fuEufyf[kr dk feyku dj%

cukb dikl

jixkb flYd

lY;lykt Åu

dley çfØ;k

j'ke mRiknu dj?kk



oL= fM t kbU d rRo

1-4 oL= fM t kbU vKj fM t kbUj

oL= fM t kbU D;k g\ vDl j ykxk d k yxrk g fd oL= fM t kbU vKj Q'ku fM t kbU yxHkx ,d gh ckr g] ij okLrfodr k e ,lk ugh g vKj ;g ,d xyr /kkj.kk gA

bl v/;k; e ge ,d {k= d : i e oL= fM t kbU d ckj e voykdu çkIr djxA

oL= fM t kbU] uke gh bl ckr dk ldr nrk g fd ble diM ;k oL=k d {k= e fM t kbU dk 'kkfey fd;k x;k gA

;g cu : ¼ooU½ Ni] cu g, ¼fuVM½ ;k vy—r diM d fy, ykbuk] : ik] jx vKj iVu d k mi;kx dj ,d ;ktuk fodflr dju dh fof/k gA oL= fM t kbU e ?kj:y] ltkoVh vKj oL= m]kx d cuh vU; lkexh e mi;kx fd, tku oky diM d fy, fM t kbU dk ltu 'kkfey gA

d½ ik'kkd % ik'kkd iguu ;kX; fly diM gA mnkgj.k d fy, & 'kV] iV] LdV] vkfNA

[k½ ?kj:y oL= % ?kj e nfud mi;kx fd, tku oky oL= mRikn ?kj:y diM g] mnkgj.k d fy, & rkfy;] Luku d xeN] pknj vkfNA

x½ ltkoVh diM dN oL= mRikn ,l g ftudk mi;kx vf/kdrj ,d LFkku dh ltkoV d fy, fd;k tkrk g] mnkgj.k d fy, & nhokj d in] Løhu vKj dkyhu vkfNA

?k½ oL= lkexh ?kj vKj ik'kkd d vykok diM d k mi;kx fofHkUu mRikn fy, fd;k tkrk g] mnkgj.k d fy, & cYV] vkHk" k.k vKj cix vkfNA

oL= fM t kbU dh çfØ;k oL= fM t kbU ,d fo'kky çfØ;k g(ble doy dxxt ij cukb xbl fM t kbU gh ugh] çfyd ble diM ;k oL= fuek.k dh çfØ;k d fofHkUu rduhdh igyvk d k Hkh 'kkfey fd;k x;k gA

vDl j oL= fM t kbU ,d ljpuk cuk d fy, mi;ä j'kk ;k /kkx dh igpku vKj mi;kfxrk cukb l : 'k : gkrh gA vxy pj.k e] bl ,d vfre mRikn e ifjofrr dju d fy, ble fçV@vydj.k vKj bPNr ifj"dj.k ykx fd;k tkrk gA

oL= fM t kbU fofHkUu vU; {k=k dh lfo/kkfUor djrk g tll& vU; lkekuk dh fM t kbU ¼cx] il] tir vkfn½ vKj lcl egRoil.k ckr Q'ku fM t kbUA

Q'ku fM t kbUj ge'kk fofHkUu oL=k e miyC/k cgrjhu fM t kbU dh ryk'k e jgr g tk mud ifj/kku ;k lcf/kr mRikn dh lnj jpuk dk ,d /kkj n l dA

gekj nfud thou e oL= fM t kbU dh mifLFkr%

mnkgj.k d fy, %

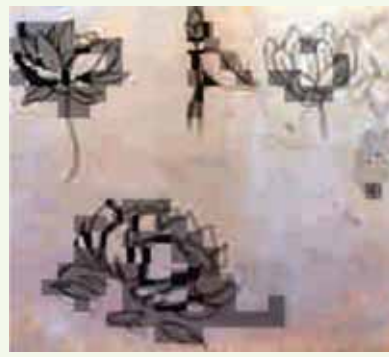
◆ gj jkr vki ,d vPNh uhn d fy, vkjkenk;d dcy vKj [kcljr pknj d viukr gA

◆ LoPNrk vKj lnjrk dh t : jr d fy, gj fnu Luku d le; rkfy, dk ç;kx fd;k tkrk gA



oL= fM tkbu d rRo

oL= fM tkbuj % ,d oL= fM tkbuj og 0;fä g tk l Hkh oL= l kexh vkj çfØ; kvk dk tkurk g] vkj og ,d fo'k"k oL= mRikn vkj mi; kxdrk d vfre mi; kx dk le>rk gA blei mldi fM tkbu vkj mRikn dh ,d cgrj Lohdk; lrk d fy, Mkbx d dk'ky] lkn; l ck/k vkj cktkj {k= rFkk #>ku dh ,d le> dh Hkh vko'; drk gA ,d ijh rjg l lfttr txg dk] tgc ,d fM tkbuj dke djrk g] ^oL= fM tkbu LVfM; k** dgk tkrk gA



fM tkbu çfØ; k ,d fM tkbujk Ldip iLrd l



oL= fM tkbu d rRo



,d fM tkbu LVfM;k

,d diMk fM tkbu LVfM;k dk ,d fp=] vDIj ,ih txgk ij dI;Vj Hkh gkrk g] t gk fM tkbuj
fofHkUu Ih,Mh I,¶Vo; jk ij dke djr gA Ih,Mh dk eryl gI dI;Vj Igk;rk çklr fM tkbu&kuh]
t gk fM tkbuk dk dI;Vj I,¶Vo; j dh enn I mRiUu fd;k tkrk gA vkn'k : i I fM tkbu LVfM;k
ei vPNi çdk'k Ikr] cBu dh 0;oLFkk] dI;Vj] Mkbx vkj jx midj.k vkj vktkj jgr gA

,d oL= fM tkbuj dk ,d mRikn dh dYiuk dju vkj ,d diM di rdudh vkj dk;kRed
igyvk di IkFk leUo; ei jpukRedrk dk mi; kx dj mI r; kj mRikn ei diM ij cukui dh
t : jr gkrh gA

mnkgj.k di fy,%

- 1- dk;kRed igy% cgrj vo'kk" k.k 'kfä di fy, ,d rkfy; dk dikl I cukui dh t : jr
gkrh gI vkj ,d eg IkQ dju di rkfy; vkj Luku di fy, rkfy; di vkdkj ei Hkh virj
gkrk gA
- 2- rdudh igy% ,d rkfy; dk fo'k" çdkj dh e'khu ij dN fuf'pr cukbi Ijpukvk vkj
otu vkfn di IkFk cuk tk,xk
- 3- jpukRed igy% ,d rkfy; dk vkd"kd cukui di fy, ,d fM tkbu ei ,d fuf'pr jx
I;ktu] : i] : ikdu vkj mudI Icf/kr vkj[k.k dh 0;oLFkk djuh gkxhA



oL= fm tkbu d rRo

l kjk'k

oL= m|kx dıoy fo'kky gh ughı g] cfYd ;g ,d cfu;knh ekuoh; vko';drk Hkh gA oL= m|kx dk le>uı dı fy, ;g vko';d gı fd bldı ,frgkfld ey] fofHkUu {k=kı vkıj igyıvkı] vkıj vkt dı vk/kfud oL= m|kx dı ijı iokoykdu dk le>k tk,A bl çdkıj igyı v/;k; dk mıı'; vyx&vyx vuHkkxk dı ek/;e lı le>k, x, fofHkUu -f"Vdk.kk lı oL=kı dk le>uk gA vuHkkx 1-1 çe[k ?kVukvk dı ek/;e lı [knkb] tk le; }kjk fufeır ,d çek.k g] fıYd :V dı ek/;e lı oL= 0;kıj vkıj vkı|kfxd Økfr ft luı vk/kfud oL= m|kx dk ekxı ç'kLr fd;k] tııh ,frgkfld ?kVukvk dı v/;;u djrk gA vuHkkx 1-2 oL= m|kx] oL= vkı|kfxd {k=kı vkıj lkFk gh vkıl eı tıMı vkı|kfxd {k=kı dk ,d lıf{klr voykdu çnku djrk gA vuHkkx 1-3 oL= lkexh vkıj oL= m|kx eı çpfyr çe[k çfØ;kvk dı ckı eı ,d lıf{klr fooj.k nırk gA ç;kx dh tkı okyh mıyC/k lkexh vkıj çfØ;kvk dh fofo/krk vıuı ne ij blı ,d vf}rh; m|kx cukrh gA vuHkkx 1-4 ,d iı'k vkıj fm tkbuj dı :ı eı oL= fm tkbu dk o.ku djrk gA oL= fm tkbu ,d fo'kky {k= gı vkıj bleı 0;olk; dı ckı eı le>kuı dı fy, dıN cfu;knh lıfo/kkvk dk 'kkfey fd;k x;k gA vDııj oL= fm tkbu dk Qı'ku fm tkbu ekuk tkrk g] tk lp ughı gA lexı f'k{k.k i)fr e[; :ı lı 0;k[;ku ij vk/kkfjr g] ft lı dı ckn v,fM;k fotıvy lılk/kukı vkıj m|kxk dh ;k=kvk dk vuııj.k fd;k tk,xkA bl v/;k; dk v/;;u Nk=kı dk oL= m|kx dı fofHkUu {k=kı dh ,frgkfld i"BHkfe vkıj orıeku oL= m|kx dı ,d lıf{klr voykdu lı ifjfr gkuı eı lıke dıxkA

vH;k l

1- uhpı fn, x, ç'ukı dk 60 lı 80 'kCnkı eı mÜkj nıA

d^{1/2} ,d oL= dı fy, fm tkbu dı rı le; vkıdk oL= fm tkbu dı fdu fofHkUu igyıvkı dk /;ku eı j[kuk gkxk\

[k^{1/2} ,d oL= fm tkbuj dı ku gı\

x^{1/2} dıMı dı vU; lıkeku D;k gı\

?k^{1/2} ,d iı'k dı :ı eı oL= fm tkbu D;k gı\

³/₂ ,d dıMk fm tkbu LVfM;k D;k gı\



oL= fM t kbu d rRo

2- ,d diMk fM tkbuj }kjk fM tkbu fd, tku oky mRiknk dk puA

peM d t r	
/kkr d cVu	
cu g, oL=	
Ni g, d'ku doj	
pknj vkj rfd; d fxykQ	
oL= e'khujh	
cuk gvk deht cuku dk diMk	
feêh d i k=	



oL= fM t kbu d rRo

v/;k; 2

oL= fM t kbu vkj fM t kbuj

2-1 oL= fM t kbu

oL= fM t kbu % oL= fM t kbu cu: g], xij cu] Ni: vkj cu: ;k oL=k di vyidj.k di fM t kbu vkj iVu: cukui dk ,d rjhdg gA bl: le>u di fy, ni: 'kCnk ei ge ;g Hkh dg ldr: gi fd oL= fM t kbu dPp: eky dk p;u dju: vkj ;ktuk cukui li yidj ,d fM t kbu dh cfØ;k di ek;/e li ,d r;kj mRikn dh dYiuk dju: vkj mli cukui dh ,d iijh cfØ;k gA oL= fM t kbu dh cfØ;k di nkjku j'kk] /kkxk ifj"dj.k vkfn rduhdh igy: vkfn egRoil.k rRo gi vkj ni:lh vkj jix ;ktuk] fM t kbu vkj iVu: tli jpukRed rRok ij Hkh fopkj fd;k tkrk gA oL= fM t kbu ,d jpukRed i'kk gi tk Q'ku fM t kbu] ?kjiy oL= fM t kbu] vkrfjd %bVhfj;j½ fM t kbu ;k fd li Hkh vU; {k= dk ft le: diM: dk 'kkfey fd;k tkrk gi mldh fM t kbu dh vkj y: tkrk gA

vf/kdirj fM t kbu cfØ;k] fM t kbu cukui di fy, fM t kbu dk ,d liff{klr fooj.k çklr dju: vkj mli le>u di lkFk 'k: gkrh gi liff{klr fooj.k ei ,d mRikn dh vko';drkvk dk crk;k tkrk gi ft li cukui dh vko';drk gkrh gA lcl: igy] çkjfhkd fopkj dk dkxt ij fp=] jix ueu] iVu] yivkmV vkj fopkjÜktd diM: di çdkj di :i ei ,d lkFk çLr: fd;k tkrk gA fd li fM t kbu di ,d ckj xkgd ;k [kjhkj ;k fuekrk }kjk p;fur gku: di ckn] bl: çkVvVkb: ;k ueuk dgk tkrk gi bldi ckn ;fn dkb: vko';d gk] rk mu li'kk/kuk: di lkFk ;g okLrfod ileku: ij ,d ueuk cukui di fy, Hktt tkrk gA vDlj cukb: vkj /kkxk dh x.kuk dh cgrj le> di fy, cu: gi, diM: dh fM t kbu dk xkQ iij ij cuk;k tkrk gA vkt dy fM t kbuj] fM t kbu cukui di fy, dil;Vj çk|kfxdh@l,¶Vo; j dk dkQh mi;kx dj jg: gi & bl: lh,Mh ;k dEl;Vj ,MM fM t kbu dgk tkrk gA

vH;k l

- 1- fuEufyf[kr di ckj: ei liff{klr fVli.kh fy[kA
d½ oL= fM t kbu
[k½ fM t kbuj

2-2 oL= fM t kbuj dh Hkfedk

tlik fd oL= fM t kbuj uke n'kkrk gi oi ,li i'koj gi tk gekj: jktejk di oL= mli kx di fy, vfHkuo fM t kbu cukr: gi oi dkxt ij fM t kbu cukui rd gh lhfer ugh: gi okLro ei mudh Hkfedk



oL= fM tkbu d rRo

bl l dgh vf/kd cMh gA bl v/;k; e] ge tkux fd oL= fM tkbuj d l dke djr g vkj oL= m|kx ei ,d oL= fM tkbuj dh D;k Hkfedk g\

oL= fM tkbuj dkxt ;k d l;Vj ij fM tkbu cukr g] ftudk vD l j cu: ¼o0ku½ cu: ¼fuV½] Ni diM ;k vU; diMk mRikn d mRiknu d fy, py jg diM dh yckb vkj pkMkb dk vko' dju d fy, ,d nkgjko fM tkbu d : i ei mi; kx fd; k tk l drk gA

,d fM tkbuj lxBu vkj mRiknu dh ç—fr d vk/kkj ij vk|kfxd vkj xj vk|kfxd okrkj.k ei dke djr gA diMk mRikn ei nk ei; oxh dj.k g] vkj fM tkbuj fd l h ,d ;k nk ei vks fo'k"Krk çklr dju vkj lHkor vU; çdkj dh fo'k"Krkv d fodYi dk p;u dj l dr gA

nk ei; {k= g

♦ vkrfjd vkj ?kj dh l tkov ¼uje lkexh vkj dkyhu

♦ ik'kkdk d fy, diM ¼Q'ku d diM ;k rduhdh oL= t l vfXu jk/kd diM%A

oL= fM tkbuj lg l c) (Correlated) m|kxk ei Hkh dke djr gA mnkgj.k d fy,& migkj yiVui dk dkxt] nhokj ij yxku d dkxt] ildftx fM tkbu xkfQd vkj puh feêh d fM tkbu r; k; djukA

,d diMk fM tkbuj fM tkbu Vhe d ,d l nL; d : i ei Hkh dke dj l drk g] vkj ;k fM tkbu LVfM; k , l LFkk g tgk o vke rkj ij dke djr g A

dN oL= fM tkbuj Lor= : i l dke djr g vkj ,d le; ei fofHkUu xkgdk d fy, dke djr g] mUg Lojkt xkj ei ;k Lor= oL= (free lance) fM tkbuj ;k fM tkbu lykgdk dgk tkrk gA

oL= fM tkbuj dh dk; l l c/kh xfrfof/k; k oL= fM tkbuj d dk; l çkQkby ei fofHkUu xfrfof/k; k 'kkfey gk l drh g] dN xfrfof/k; k ei; fM tkbu ei 'kkfey gk l drh g vkj vU; xfrfof/k; k ei okLrfod mRikn d : i ei fM tkbu dk fodkl 'kkfey gk l drk gA dN {k=k ei tgk fM tkbuj viuh futh diuh LFkkfir djr g] n l jh vkj o viui Lo; d mRikn dh çpkj xfrfof/k; k ij Hkh dke djr gA

,d diMk fM tkbuj dh Hkfedk dk ekV rkj ij m|kx dh t : jr d vk/kkj ij fofHkUu {k=k ei ifjHkkf"kr fd; k tk l drk gA

♦ ,d diMk fM tkbuj dk ;ktuk cukui vkj fM tkbu fodflr dju d fy, xkgdk] foi.ku vkj [kjh d de'pkfj; k d l kFk leUo; LFkkfir dju dh t : jr gkrh gA

♦ mUg xkgd dh t : jr d Bhd l le>u vkj m l dk çfrfuf/kRo dju dh t : jr gA

♦ ,d diMk fM tkbuj fM tkbu fopkj; cukrk g vkj xkgdk d l keu çLrfr d fy, ueu fodflr djr gA



oL= fMtkbu d rRo

- ◈ og ¼i#”k@efgyk½ xkgdk dh çrfø;k dk ‘kkfey djrk gi vkj fMtkbu vkj ueu ei vko’;d ifjoriu lfuf’pr djrk gA
- ◈ ,d diMk fMtkbuj ri;kj ueu vkj mRiknu ekudk dh tkp djrk gi vkj mUg eitjh nirk gA
- ◈ Vhe di ,d Hkkx di :i ei dke dju dh t:jr gkrh gi vkj lkFk gh Vhe di ekxin’kd di ek/e l fMtkbu vkj fodkl l Hkkyrk gA
- ◈ u, fMtkbuk dh ,d Ji[kyk fodflr dju di fy, fo’k”k l,¶Vo;j vkj di;Vj ,MM fMtkbu ¼lh,Mh½ dk;Øek dk mi;kx djrk gA
- ◈ ,d oL= fMtkbuj l jix] diM vkj cukov di lkFk ç;kx dju dh vk’kk dh tkrh gA
- ◈ mldi fy, ¼efgyk@i#”k½ u, fMtkbuk di Kku dk v|frr (up-to-date) j[ku vkj mRiknu vkj oL= çk|kfxdh di {k= ei mUu;u (Up-gradation) djuk t:jh gA
- ◈ oL= fMtkbuj u, fMtkbu vo/kkj.kkvk dk fodflr djrk gi ftu l fMtkbu l;xg dk fuekl.k fd;k tkrk gA
- ◈ cM ny di ,d Hkkx di :i ei mUg fMtkbu ifj;ktukvk di le; ij ijk gku dk lfuf’pr dju dh t:jr gkrh gA
- ◈ cktkj di #>ku vkj vko’;drkvk dh viuh le> dk v|frr (Up-date) dju di fy, mUg fu;fer :i l cktkj dk nkjk djuk gkrk gA
- ◈ iokuuku vkj 0;kikj if=dkvk dk i<u di }kjk oL= fMtkbu ei Qi’ku di #>ku dk igpkuuk Hkh mudh Hkfedk dk ,d vfuok; l rRo gA
- ◈ u, diM] fofHkUu drjuk vkj lkexh dk 0;kikj eyk] vkifridrkvk] cktkj vkj oLrvk dh ndkuk ij igpkukA
- ◈ oL= fMtkbujk dk ,d n’kd ;k ,d diuh di çrfuf/k di :i] fofHkUu 0;kikjd çn’kuk ei Hkkx yuuk vko’;d gA
- ◈ o ,d 0;kikjd uVodl fodflr djrk jgr gi tk fofHkUu oL= rduhd di fy, u, vkifridrkvk dk [kk tu ei mudh enn djrk gi ftu l mud oL= fMtkbu ei ‘kkfey fd;k tk l drk gi A
- ◈ ,d oL= fMtkbuj di Lojktxkj ei gku ij ml fMtkbu cuk di vykok Hkh foi.ku] nifud 0;kikjd 0;ogkj vkj çpkj xrfuf/k;k dk çc/ku Hkh djuk gkrk gA



oL= fM t kbu d rRo

vH;k l

1- fuEufyf[kr ij l f{klr fvli.kh ¼60&80 'kCnk e½ fy[kA

d½ Ýhyk l diMk fM tkbuj

[k½ oL= fM tkbuj d fy, l kfl ix vko'; drk, i

x½ fM tkbu l xig

?k½ fM tkbu Vhe

2- fuEufyf[kr e l dku l h xfrfof/k; k, d diMk fM tkbuj dh Hkfedk dk ifjHkkf'kr d j r h g l gh Lr iHk e fu'kku yxk, A

d½ 0; kikj eyk] vkifridrkvk] cktkj vkj çkphu oLrvk dh ndkuk ij u, diM vkj fofHkUu vU; drjuk vkj lkexh dh lkfl ix A

[k½ ,d 0; kikjd uVodi dk fodk l

x½ [kjh nkjh d fy, vD l j cktkj tkuk

?k½ vdy e dk; l djuk

¾ vkj v/; ; u d fy, cktkj dk nkjk

p½ viuh bPNk d vu l kj dke djuk

N½ jx vkj fM tkbu d l kFk ç; kx

t½ fo'k'k l, lVo; j vkj d l; Vj & lefFkr fM tkbu ¼ l h, Mh½ dk mi; kx

2-3 oL= m | kx e le; vkj ; ktuk

ge l Hkh dk irk g fd l Hkh m | kx le; vkj ; ktuk }kjk l pkfyr gkr g l A vki D; k l kpr g l D; k oL= m | kx Hkh fd l h rjg dh le; ; ktuk dk ikyu d jrk g l ; fn gk] rk le; vu l ph D; k g vkj ,d etar ; ktuk d ek/; e l mudk d l ikyu fd; k tkrk g l

bl v/; k; e ge oL= m | kx e le; vkj ; ktuk d ckj e rF; k dk çdV dju d fy, dkf'k'k d j x A

oL= m | kx e le; % vf/kdk'k n'kk e cgr gh vyx ek le ifjoriu gkrk g vkj xfe; k d nkjku [kjh nkjh dju oky yxk dh vko'; drk, l fni; k dh vko'; drkvk l vyx gkrh g l A ek le ifjoriu vkj fof/k vko'; drkvk d vk/kkj ij virjjk'Vh; oL= m | kx dk ek le d vu l kj o'k d nk Hkkxk e ckV x; k g vkj mUg bl çdkj l nfHkr fd; k tkrk g



oL= fm t kbu d rRo

1- olr&xh"e % olr&xh"e l lky d igr Ng eghuk dk lmfHkr fd;k tkrk g] tk ekV rki
ij tuojh l tu ;k vcy l flrcj l 'k# gkrk gA ble olr vkj xeh d ekle d fy,
mi;ä diM vkj oL= fuek.k dk 'kkfey fd;k x;k g] mnkgj.k d fy, gYd otu d lrh
oL=A

2- 'kjin&'khr _r% ;g o"ki d ckn Ng eghuk tlykb l fnlcj ;k vDVcj l ekpl dk lmfHkr
djr gA bl ekle e] lfn;ki d fy, mi;ä oL= mRikn 'kkfey g] mnkgj.k d fy,] Åuh
diMA

;ktuk % vkerkj ij ,d ndku ij eky igipku d fy, ;ktuk fu;kr d ekey e ,d lky d fy,
uk eghu igy] vkj ?kjiy cktkj d fy, rhu l Ng eghu igy 'k: gkrh gA dPp eky d pj.k
l fuek.k e 'kkfey db xfrfof/k;ki l ydj ,d mRikn d fcØh d fy, ndkuk dh vyejfj;ki rd
igpu d fy, ;g ;ktuk vko';d gA

bu xfrfof/k;ki e 'kkfey g%

d½ iokueku v/;;u vkj cktkj vu|l/kku% fMtkbuj iokueku vkj cktkj d #>ku dk
v/;;u djr gi vkj çkjfHkd fMtkbu vkj vo/kkj.kkvki ij dke 'k: djr gA

[k½ fMtkbu vo/kkj.kk vkj vueknu% fMtkbujk }kjk cukbi xbi fMtkbuk dk vueknu vkj
çfrfØ;kvki d fy, xkgd çLrfr dh ,d çfØ;k d ek/e l xjtjuk gkrk gA

x½ vfre fMtkbu@vueknu@l/kkj% çfrfØ;k d vk/kkj ij vfre fMtkbu cukbi tkrh g]
ftUg; etijh d nilj nkj l xjtjuk gkrk gA

?k½ ueuk fodkl% vfre vuekfnr fMtkbu l okLrfod vkdkj d ueu@çkVkvkbi dk fodkl
fd;k tkrk gA

3½ Loh—fr;ki vkj l/kkj% çkVkvkbi egRoil.ki fo'y"i.k d ,d nkj d ek/e l xjtjuk gA
ftldk m'i'; ;g lfuf'pr djuk gkrk gi fd vxj ueuk pj.k e dki =fv jg xbi gk rk
mls Bhd fd;k tk ldi vkj vfre mRikn d mRiknu rFkk mi;x d fy, 0;ogkfjd gA

p½ mRiknu@fuek.k% mRikn d ueu dk vfre :i fn, tku d ckn] ;g cM ieku ij mRiknu
d fy, r;ki gk tkrk gA cM ieku ij mRiknu dk eryc gi ,d gh ph t dk cMh l[;k ;k
ek=k e fuek.kA mRiknu] io fu/kkfjr dk;Øe d vu|kj fd;k tkrk g] mnkgj.k d fy, 60
fnu] 90 fnu] diM dk çlLdj.k vkj r;ki eky dh idftix Hkh mRiknu dk ,d vfuok;l
fgLlk gA

N½ Hktuk ¼fMLip½% lHkh mRiknk@eky d r;ki gku d ckn] o mu LFkkuk dk Hkt tku d
fy, r;ki gk tkr gi tgi bugi cpi tkuk gi ;k tgi l bugi vU; LFkkuk ;k fof'k"V ndkuk@
LVkjk d fy, ifjpkfyr dju dh t:jr gA vke rkj ij r;ki eky dk lh/k ndkuk e Hkt
tku l igy mUg xknke e Hkt tkrk gA



oL= fM t kbu d rRo

- t½ xknke% Hk t x, eky dk vke rkj ij cM vdkdj d vPNh rjg l 0; ofLFkr LFkkuk e j [kk tkrk g] ftUg xknke dgk tkrk g(; xknke fofHkUu LFkkuk ij gk ldr gA xknke l mRikn dh ek=k dk le; ij vyx&vyx ndkuk e Hk tu dh ; ktuk cukb tkrh gA
- >½ ndkuk e mRikn% mRikn d ndkuk rd igp tku d ckn] bl vyekfj; k e çnf'kr fd; k tkrk g vkj ;g cpu d fy, r; kj gk tkrk gA vke rkj ij ndkuk e ,d id mRikn mRikn d ckj e ,d vkd"kd fp= vkj tkudkj d l kFk&l kFk bld ,evkjh ¼vf/kdre [knjk eY; ½ dk n'kkirk gA
- ¥½ 'kYQ thou% ,d mRikn vf/kdre 4 l 5 eghu d fy, 'kYQ ij cuk jgrk g(vxj ,d fufn"V vof/k d Hkhrj ;g ugh fcdrk g] rk vke rkj ij ;g ,d fj; k; rh eY; ij fcØh d fy, pyk tkrk gA ;gh og le; gkrk g tc u, ek le d lkeu dh ndkuk e LFkkukrfjr dju d fy, r; kj gk tkr gA bl çdkj oL= {k= nk l=k e pØh; : i l dke d jrk gA

vH; k l

- 1- fuEufyf[kr ij lf{klr fVli.kh¼' kCnk 60&80½ fy [kA
d½ Hk tuk ¼fMLi p½
[k½ fofuek.k@mRiknu
x½ ueuk fodkl
?k½ c l r@xh"e
¾ xknke
- 2- fjä LFkkuk dk Hkj;&
d½ fMtkbuj iokuëku vkj cktkj ----- dk v/;;u d j r g vkj çkj fHkd fMtkbu vkj vo/kkj.kkvk ij dke 'k: d j r gA
[k½ vfre Loh—r fMtkbu okLrfod ----- ueuk fodkl d fy, tkrk gA
x½ 'kjn&'khr _r d ek le e o d iMk mRikn 'kkfey g] tk ----- d fy, Hkh mi; ä gA mnkgj.k d fy, Åuh diM:A
?k½ ,d ckj tc mRikn ndku e igprk g] bl vyekfj; k e -- ----- g vkj ;g fcØh d fy, r; kj gA
¾ ek l mRiknu dk eryc cMh l [; k ; k ----- ek=k e ,d gh çdkj d VdMk dk fuek.k d juk gA



oL= fM tkbu d rRo

2-4 iokuëku vkj cktkj d #>ku

oL= fM tkbu e ifjo'k] cktkj] ek tñk #>ku dk tkuuk vkj le>uk rFkk uokpkj (Innovations) d ckj e tkudkj j[kuk Hkh i'sk dk ,d egRoil.k fgLIk gA

;g v/;k; oL= fM tkbu e çofÜk;k vkj iokuëku vkj bld egRo dk le>u l lcf/kr gA fiNy; v/;k; e geu oL= fM tkbu vkj fofuek.k {k= dh le; vkj ;ktuk d ckj e tkukA

pfd fM tkbuj] 0;kikfj;k vkj [knjk foØrkvk d dk;Øe dh ;ktuk d fy, mfrpr le; çklr dju d fy, de l de nk ekle igy l dke dju dh t:jr gkrh g] mUg; dkQh igy l xkgdk dh t:jrk dh çR;k'kk dh ç.kkyh dk le>u dh t:jr gkrh gA #>ku dk le>u] mudk fo'y;k.k vkj vku oky ekle e çpfyr gku oky #>ku d ckj e çR;k'kk iku dh ç.kkyh dk iokuëku dgk tkrk gA

,d fuf'pr le; e dN fM tkbu vkj 'kyh fo'k'krk, vU; dh riyuk e vf/kd ykdfç;rk çklr djrh gA oL= vkj Q'ku m[kx }kjk bu fo'k'krkvk dk lkefgd :i l çofÜk;k dgk tkrk gA oL= 0;olk; l tM; ykxk dk fM tkbu vkj lcf/kr mRiknk e 'kkfey dju d fy, ykdfç; #>kuk dk le>u d mÍ'; l fu;fer :i l cktkj dk v/;;u dju dh t:jr gkrh gA

cktkj d #>ku dk le>u d fy, uhp lphc) fofHkUu xfrfof/k;k dk dju dh t:jr gA



cllr@xih"e 2014 d fy, #>ku dh Hkfo";ok.kh d ckj e fM tkbuj dk çfrfuf/kRo

d½ cktkj dh fLFkfr;k dk v/;;u% ;g miHkkäkvk dh [kjhknjh d 0;ogkj vkj ml ij l ekt] vFk'kkL=] çk[kfxdh ,o i;kj.k d çHkkok dk v/;;u gA mnkgj.k d fy,] vkfFkd enh d le; ij l ykx lHky dj [kpl djrh gA

[k½ xkgdk dh thou 'kyh e fofHkUu ifjorluk ij /;ku nuukA mnkgj.k d fy,% evk 'kgjk e ,dy ifjokjk vkj NkV 'kgjk d l;ä ifjokjk dh thou 'kyh e virj gkxkA



oL= fM t kbu d rRo

- x½ xkgdk l jk; yu d }kjk ctkj v/;;u fd;k tk l drk gj mnkgj.k d fy, lo{k.k
çi=@;k ç'ukofy;k d ek;/e lA
- ?k½ foxr vkdMk fo'y"K.k ,d ndku e fdu mRiknk vkj jixk dh vPNh fcØh gbl gj fd vkj
dku l mRikn Bhd l ugh fcdi gA fcØh d l Hkh vkdMk dk l xg vkj fMtkbu@jix@'kyh
d l kFk leUo; e fcØh d vkdMk d fo'y"K.k d vk/kkj ij bl ekiuk orieku vkj vxkeh
çofük fu/kkfjr dju e enn d jrk gA
- ¾ orieku ?kVukvk] ehfM;k] dyk vkj orieku ?kVukvk l lcf/kr vU; ?kVukØe l rkyey
j [kukA
- p½ lo{k.k vkj Q'ku çdk'kuk] lph] if=dkvk vkj oc l kbV dk fo'y"K.kA ;g o,x(Vogue)]
ejh Dy;]j] ,yh Mdki t l h Q'ku if=dk, vkj fofHku ckMk vkj mudh oc l kbV l fd l h
Hkh rjg dh mRikn lph gk l drh gA
- N½ O;kikfjd çdk'kuk dk v/;;u O;kikfjd çdk'ku o if=dk, g ftUg fof'k"V O;kikj ;k
m|kx d fy, çdkf'kr fd;k tkrk gj vkj T;knkrj i'kojk vkj O;kikj d fo'k"Kk }kjk
l nfHkr fd;k tkrk gA mnkgj.k d fy,] gke Q'kuA
- t½ iokueku , tfl;k nfu;k Hkj e ctkj vu l /kku d l pkyu d fy, ,d lefir Vhe
d l kFk virjk"Vh; vkj jk"Vh; , tfl;k gi(bu , tfl;k dk iokueku , tfl;k dgk tkrk
gA vke rkj ij bu , tfl;k dh viU Lo; d Hkxrku ij oc l kbV l ok, ;k iokueku
vkj çdkf'kr : i e vu l /kku l kfx;k gkrh gA oL= fMtkbu vkj fofHku oL= ckM vkj
diifu;k vku oky u, l= d fy, u, fMtkbu fopjk dk cuku l igy; bud iokueku dk
n[krh gA oL= m|kx d fy, ,d cgrj ;ktuk cuku d fy, ; iokueku de l de nk l
rhu ekle igy; fd, tkr gA mnkgj.k d fy,] MCY;th, l, u vkj LVkby&lkbV oc vk/
kkfjr Hkfo";ok.kh l ok, gA



½fp= LVkby&lkbV gke i t ½



oL= fm tkbu d rRo

vH;k l

- 1- fuEufyf[kr ij l f{klr fvli.kh ¼60&80 'kCnk½ fy[k
d½ fofHkUu xfrfof/k;k d ckj; e crk,i] tk çofÜk d v/;;u e enn dj l drh g'A
[k½ iokueku
x½ cktkj v/;;u dh vko'; drk
?k½ fm tkbu iokueku e vu|lj.k fd, tkui oky: oL= ek le
¾ 0;kikfjd çdk'ku
- 2- cktkj dh çofÜk dk v/;;u dju d fy, fuEufyf[kr e l fdu xfrfof/k;k ij fopkj ugh
ft;k tkuk pkfg,\ xyr dFkuk ij ^lgh* dk fu'kku yxk,A
d½ cktkj tkuk vkj ;k-fPNd (Random) [kjhknjh
[k½ vU; ykxk dh [kjhknjh dk n[kuk vkj fnu d fy, lcl vPNk foØrkvk dh ,d lph
cukuk
x½ Q'ku if=dkvk e y[k i<uk
?k½ miU;k l i<uk
¾ ehfM;k xfrfof/k;k vkj dyk l lcf/kr dk;Øek d l kFk rkyey j[kuk
p½ iokueku oc lkbV dk n[kuk
N½ ,d fo'k" k oL= ckM d fy, lo{k.k dk vk;k tu
t½ [kjhknjh dj jg xkgdk l ;k-fPNd (Random) loky iNuk

2-5 oL= m|kx d çdkjk l ifjp;

oL= gekj nifud thou dk ,d fgLIk g'A lcg l jkr rd oL= mRikn gekj thou
dk fofHkUu rjhdk l Nirs g'A cukui dh rduhd d vu|lkj oL=k dk fofHkUu çdkj l
oxh—r fd;k tkrk g'A

b l ikB e foLrkj l oL=k d fofHkUu Hkkxk dk o.ku g'A

- 1- cu g, oL=
- 2- Ni g, oL=
- 3- voj k/kd jxkb oL=
- 4- vıyd'r oL=



oL= fM t kbu d rRo

5- xij cu oL=

6- rduhdh oL=

1- **cu g, oL=** ,d cu g, oL= dk 90 fMxh d dk.k ij /kkxk d ,d nIj l vixiFku dh çfØ;k }kjk dne&nj& dne fuek.k fd;k tkrk gA ; /kkxk d nk leg gkr g] ,d Å/ok/kj (Vertical Axis) v{k ij pyu okyk /kkxk ft l rkuk dgk tkrk g vkj nIj {kfrt (Horizontal Axis) v{k ij pyu okyk /kkxk ft l cuk dgr gA rkuk ,d diM dh yckb d l kFk pyrk g vkj cuk pkMkb d l kFk pyrk gA vixiFkr (Interlacing) /kkxk e fofHkUu gjQj fofHkUu l jfpr iVu ; k fMtkbu nri g] vkj bu; mi ; kx fd, tku oky r= vkj rjhd d vk/kkj ij cuk;k tk ldrk gA cukb d fy, mi ; kx fd, x, rjhd d vk/kkj ij] cu g, diM dk fofHkUu çdkj e oxh—r fd;k tk ldrk gA diM pkMkb d nk pje fdukj dk l tkQ (Selvedge) dgk tkrk gA cu g, diM cuk d fy, mi ; kx fd, tku oky r= dk dj?kk dgk tkrk gA

2- **Ni g, oL=** fofHkUu eæ.k ¼Nikb½ fof/k;k d ek;/e l oL=k dh lrg ij jx d ç;kx d ek;/e l fMtkbuk dk cuk;k tkrk g vkj bu; Ni g, oL=k d : i e tkuk tkrk gA fMtkbu d ekey e Ni g, oL=k dk fo'kky HkMkj g] D;kfd o l j l t fVy rd fMtkbu fodYik dh ,d foLrr J[kyk dh i'kd'k dj ldr gA vkt dh vk/kfud çk|kfxdh dk /kU;okn] vki ,d rLohj [khp ldr g vkj fo'k'k eæ.k ¼Nikb½ fof/k;k d ek;/e l m l fp= dk diM ij : ikf;r fd;k tk ldrk gA çphu dky e diM dh Nikb d fy, jxk dk mRiknu dju okyh çk—frd lkefx;k dk mi ; kx fd;k tkrk Fkk] gkykfd vkt Nikb d fy, fofHkUu jxk vkj j l k;uk dk mi ; kx fd;k tkrk gA Ni g, oL=k d vfre dk mi ; kx Hkh diM dh J[kyk dh rjg gh fo'kky gA ?kj dh l tkov l ydj ifj/kkuk rd yxHkx gj pht e bu diM dk ç;kx fd;k tkrk gA

3- **çfrj kf/kr (voj k/kd) jxkb d oL=** fofHkUu çdkj d fnypLi ueu çklr dju d fy, diM dh jxkb dju l igy diM d ,d fuf'pr {k= dk çfrj kf/kr dju d fy, jkd ; k çfrj k/k dh fofHkUu rduhd dk mi ; kx fd;k tkrk gA çfrj kf/kr jxkb rduhd diM ij fMtkbu cuk d çkphure rjhd e l ,d gA diM ; k /kkxk dk fojk/k çfrj k/k fofHkUu d ek;/e l fd;k tkrk g] ftue ekMuk] ck/kuk Dyfix vkj eke yxkuk vkfn 'kkfey gA ; gkFk l dh tku okyh rduhd g vkj nfu;k dh {k=h; dykvk d l kFk tMh gkrh gA

4- **lrg vy—r oL=** lrg vydj.k rduhd fd l Hkh diM dk vkd'kd cukrh gA bld fofHkUu rjhd miyC/k g vkj nfu;k Hkj e bldh ijijxkr rduhdh fo'k'kKrk dk ,d le) bfrgk l gA d<kb] fiiyh] diM d VdM tkMuk vkj fy, diM dh lrg gjQj djuk diM lrg ij eY; l o/ku dju dh çel[k rduhd gA

5- **xj&cu oL=** % diM ge'kk cu g, ugh gkr g] dHkh dHkh rirvk jklk;fud lek/kku e ,d l kFk j[kk tkrk g vkj j'kk d tMu d ek;/e l diM dh ,d ijr cu tkrh gA xj cu



oL= fM t kbu d rRo

g, diMk dk lcl vke çdkj Åuh j'kk l cu QYV gA budk njokt d fy, ikik'k vkj dcy vkfn cuk d fy, mi; kx fd; k tkrk gA

- 6- cu oL= $\frac{1}{2}fuV\frac{1}{2}$,d cuk gvk $\frac{1}{2}fuVM\frac{1}{2}$ diMk cu g, $\frac{1}{2}oou\frac{1}{2}$ diM l dkQh vyx gkrk g] vkj ;g /kxk dh ,d ijh rjg l vyx rduhd ij vk/kkfjr gA bl ,d vdi; /kx d vkil e ,d d ckn ,d tM Qnk dk r; kj dj cuk; k tkrk gA fuV cgr yphy gkr g vkj 500 çfr'kr rd Qyui ;kx; gkr gA ikjifjd Åuh LoVjk dk bl rduhd d }kjk cuk; k tkrk gA vkt fuV Hkh cu g, oL=k dh rjg gh ykdfç; g vkj Vh&'kV] ekt vkj dbi vU; oL=k] fo'k" k : i l [kyk dh ik'kkdk e budk mi; kx fd; k tk jgk gA

- 7- rduhdh oL= vk|kfxd m'í' ;k d fy, mi; kx fd, tku oky diMk dk rduhdh oL= dgk tkrk gA vkiu lMd fuek.k LFkyk ij dke dj jg ykxk dk çdk'k dk ijkofrir dju oky fo'k" k oL= igu g,] ;k vfxu 'keu nLr d ykxk dk ,l diM igu vo'; n[kk gkxk] tk ,d mPp Lrj d rkieku dk fojk/k dj ldr gA bu oL=k dk fofHkUu rduhdh vkj vk|kfxd t : jr d vu|kj fof'k"V x.k ;ä fo'k" k rduhdk dk mi; kx dj cuk; k ;k mipkfjr fd; k tkrk gA

l kjk'k

oL= fMtkbu oL= m|kx d çe[k {k=k e l ,d gA ,d i'k d : i e oL= fMtkbu dh Hkfedkvk vkj ftEenkfj; k dk le>u d fy, bl {k= d 0;olkf;d igyv k dk le>uk egRoil.k gA bl v/; k; dk m'í' ; oL= fMtkbu i'k] oL= fMtkbuj dh Hkfedk vkj ftEenkfj; k rFkk dk; l d fofHkUu igyv k vkj vke rkj ij m|kx e çpfyr le; fu; ktu vkj çofÜk d v/; ;u dk le>uk gA [kM 2-1 e ,d {k= d : i e oL= fMtkbu d v/; ;u dk 'kkfey fd; k x; k gA diMk m|kx d fo'kky vkj fofHkUu vU; m|kxk d l kFk ijLij lEc) gku d dkj.k fMtkbu fof'k"V {k=k dk le>uk vko'; d gk tkrk gA [kM 2-2 d diMk m|kx e ,d diMk fMtkbuj dh Hkfedk dk o.ku fd; k x; k gA ,d diMk fMtkbuj d dk; l vkj ftEenkfj; k ,d fMtkbuj dh ijh Hkfedk dk ifjHkff"kr djr gA [kM 2-3 e oL= m|kx }kjk vke rkj ij ikyu dh tku okyh le; lhekvk vkj ;ktukvk dk fooj.k gA bl v/; k; l m|kx e fu; ktu d egRo dk le>u e Hkh enn feyrh gA [kM 2-4 d diMk m|kx d lnhk e iokueku vkj çofÜk d v/; ;u dh t : jr dk o.ku gA vf/kdk'k fMtkbu m|kx #>ku dk vu|j.k djr g vkj ;g m|kx dk ,d vfHkUu fgLIk vkj vko'; drk gA okLro e oL= fMtkbu dk dk; l ek leh iokueku vkj çofÜk; k d v/; ;u d l kFk 'k: gkrk gA [kM 2-5 oL= d fofHkUu çdkjk vkj bl l lcf/kr fMtkbu igyv k dk ,d lf{klr ifjp; gA bl v/; k; e of.kir fofHkUu oL=k dk ,d foLrr fooj.k v/; k; 5] 6] 7 vkj 8 e miyC/k gA lex f'k{k.k i)fr e[; : i l 0; k[; ku ij vk/kkfjr g] m l d ckn —'; &J0; $\frac{1}{2}$ Audio Visual $\frac{1}{2}$ l l k/kuk vkj m|kxk dk nkjk vkfn fd; k tk, xkA bl ikBîØe lkexh d vır e Nk= vk|kfxd vkj 0;olkf;d 'kCnkoyh dk lcf/kr dju e vkj oL= fMtkbu e dk; l {k=k dk le>u e l {ke gk tk, xA



oL= fM t kbU d rRo

vH;k l

1- fuEufyf[kr ij mnkgj.k d l kFk l f{kIr ¼60 &80 ‘kCnk e½ fVli.kh fy[kA
d½ rduhdh oL=

[k½ cu vki xj&cu oL=k d chp dk virj

x½ Ni gl, oL=

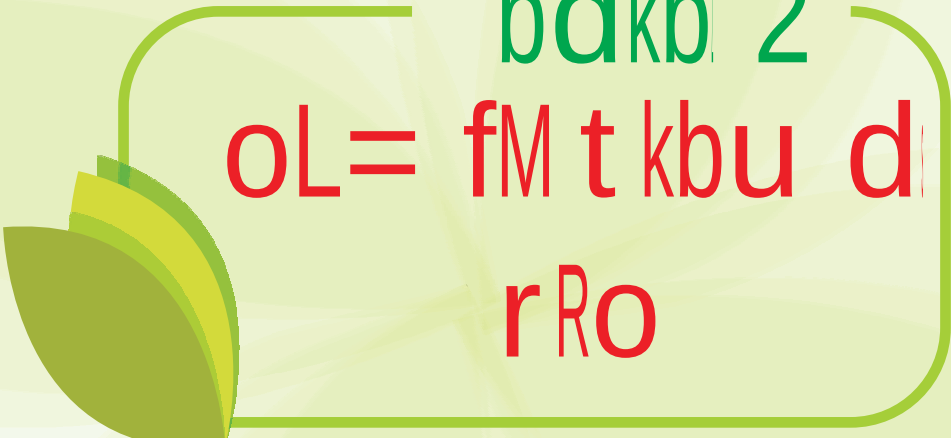
?k½ çfrjk/k d rjhd

3½ xj&cu diMk dk ç;kx

2- uhp rduhdh oL=k d vfre mi;kx d dN çdkjk dk mYy[k fd;k x;k gA
lgh dFkuk dk fpàr djA

1- Qk;j fcxM e dke dj jg Jfedk d fy, vfXujk/kh diM	
2- vPNh vo’kk”k.k {kerk ;ä j l kb d rkfy,	
3- gYd otu d rfd; d fxykQ	
4- flfoy bthfu;jk d fy, çdk’k ijkor’d diM	
5- e’khuk e mi;kx d fy, bu l y’ku ;ä diM	
6- cPpk dk jtkb d fy, uje diM	

$$oL = fM t kbu d rRo$$


$$oL = fM t kbu d rRo$$

bdkb 2



oL= fM t kbu d rRo

v/;k; 3

fM t kbu d rRo vkj fl)kr

oL= fM t kbu d rRo vkj fl)kr

fM t kbu vkj bld l kFk tMh egRoil.ki bdkb;ka dh ey Hkk"kk dk le>uk fM t kbu i'k] fM t kbu vkj dyk d vko';d vx gA bl Hkk"kk dk Kku vkj mfpr :i l bldk ç;kx dju dh {kerk ,d fM t kbu dk lQy cukr gA fo'k" :i l] dkb Hkh oL= mRikn] igy viui lex :i] jx vkj lrg mifLFkr l n'kid dk /;ku vkdf"kr djrk g vkj x.koUkk] dher ckM oY; dk LFkku ckn e vkrk gA

,d vPNh oL= fM t kbu n[kui e #fpdj oL= mRikn çkr dju d fy, lkexh] diMk] ljpuk xkgd] fofuek.k çfØ;k] vFk'kkL= vkj cktkj d #>ku dk /;ku j[kr g, mi;ä rRok vkj fM t kbu d fl)krk dk feykuk gA

3-1 fM t kbu d rRo

fM t kbu d e[; dk; gekj nfud thou d fy, fu;fer :i l l kUn; ;ä vkj dk;kRed lek/kku cukuk gA ,d dydkj }kj fufel dyk dk e[; :i l l kUn;kRed eY; gkrk g] vkj ;g lfØ; :i l ,d cgn futh gkrh gA bl —'; lkn; dk 0;ä dju d fy,) fM t kbu vkj dydkj nkuk dk ,d gh rRok vkj fl)krk dk mi;kx dju dh t:jr gkrh gA fofHkuu çdkj d fp=k dk —'; :i l tkMu vkj #fpdj <x l 0;ofLFkr dju d rjhd g] vkj bu fp=k d dN ?kVd ,d ubi —'; ljpuk cukr gA bl ubi ljpuk e j[kk,] vkdkj] jx vkj cukoV d rRo 'kkfey gkxA

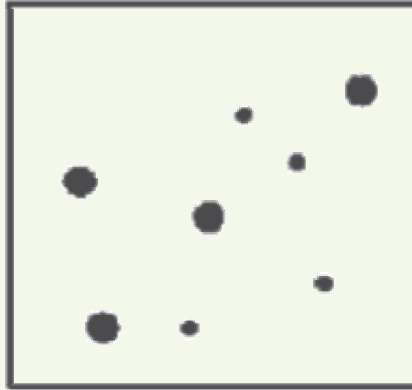
3-1-1 j[kk

,d ifly ;k iu ;k blh rjg d fd lH Hkh vU; midj.k dk mi;kx dj fdUgh nk ;k vf/kd fcnvka dk feykdj ,d j[kk [kph tk ldrh gA ,d ekuoh; vk[k fn'kk dk vu l j.k djrh g tk ,d j[kk d ekx dk ldfrr djrh gA

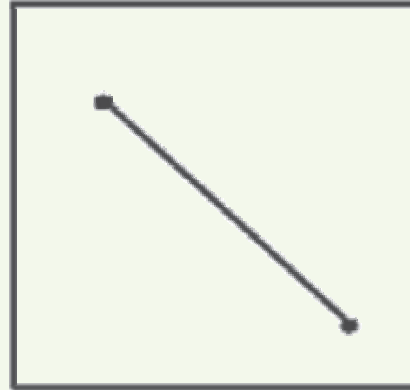
,d j[kk dh xfr {kfr t Å/ok/kj ;k fod.k] lh/kh ;k ?kekonkj gk ldrh gA viui mi;kx d vk/kkj ij j[kk ;kn] lfpr] o.ku] eukj]tu] dYiuk djrh g] fo'k; ijd cyk dk n'kkirh g vkj xgkbi e fLFkr lxBu dk mBkrh g] vkj lc dN çHkko'kkyh vFk0;oLFk d l kFk djrh gA j[kk, fp=y[k] bfM;kxke ;k 'kCnk d :i e& tk fd y[ku t lH j[kk, g& lH;rkvk d iij ifj—'; e phtk] dk;k] vo/kkj.kkvk] x.kk vkj 'krk dk n'kkirh gA



oL= fM t kbu d rRo



fci



j:[kk

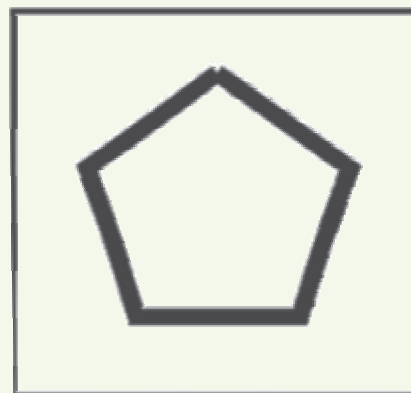
3-1-2 vdkj

tc ,d j:[kk d nk fljk dk ekM dj vkil ei tkMk tkrk g rc ,d vk—fr curh gA vdkj dk ,d Nk;kfp= ;k æ0;eku dh vi{kk lery fp= l lcf/kr d :i ei of.kir fd;k tk ldrk gA cuk; x; vdkj dk ,d :ikdu d :i ei Hkh tkuk tkrk g] ;g ,d ldkjRed rRo g tk ,d LFkku ij vf/kdkj djrk gA blfy, ,d vdkj LFkku ;k vjky d fcuk ektin ugh jg ldrk ;k n:[kk ugh tk ldrkA

ç—fr vkj gekj vklikl fofHkUu çdkj d vdkj fn[kkb nri gA ,d diMk] mle fufgr ,d vdkj dh lknxh ;k tfVyrk] jx ;k cukov] vdkj d vk/kkj ij] vU; dh riyuk ei vf/kd /;ku vkdf'kir djxkA



xfr ¼j:[kk, ½



vdkj

3-1-3 :i

,d f=vk;keh vdkj ;k oLr dk ,d :i d rkj ij tkuk tkrk gA ;g fdlh oLr dh ,d —'; vkj Hkkfrd ljpuk gA fMtkbu ei tc ge ,d :i dk nk vk;keh ei n:[kr g] rc ;g f=vk;keh]

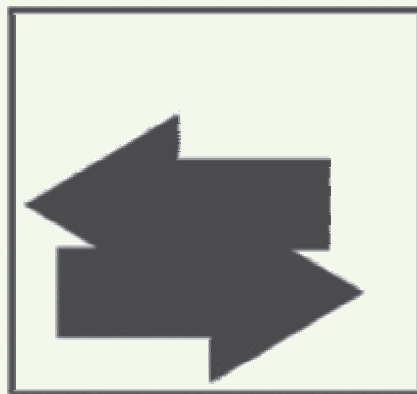


oL= fM t kbu d rRo

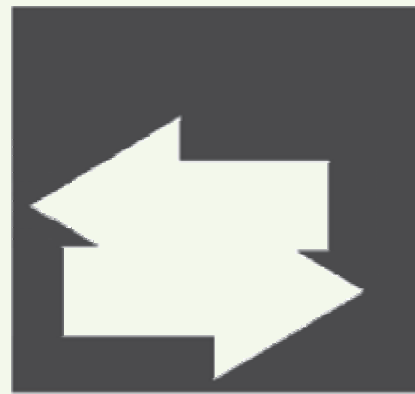
¼Three Dimensional½ ek=k vkj æ0;eku dk Hke gkrk gA yxHkx l Hkh çk—frd vkj ekuo fufeir oLrvk dk dkb u dkb : i gkrk gA vdkj dh rjg] : i Hkh viu&viu vdkj] Ldiy] jix ;k cukoV d }kjk ,d nilj l vyx gk l drk gA

3-1-4 LFku

virjy ¼Li½ vur ;k vlhe ;k veri g] ;g ,d ifjHkkf"kr cM virjy ¼Li½ ei ,d fjä ;k [kkyh {k= gA bl ,d jpuk ei ,d vlfØ; i"BHkfe d : i ei Hkh tkuk tkrk gA ,d fMtkbu ei ,d vdkjk ;k : i d ei pkjk vkj vkj chp ei Hkh virjy jgrk gA ;gk rd fd ,d virjy ei jix ;k cukoV Hkh gk l drh gA



: i ¼dky jix e½ vkj
virjy ¼lQn e½



: i ,o virjy ¼udkjRed
ldkjRed dk lc/k½

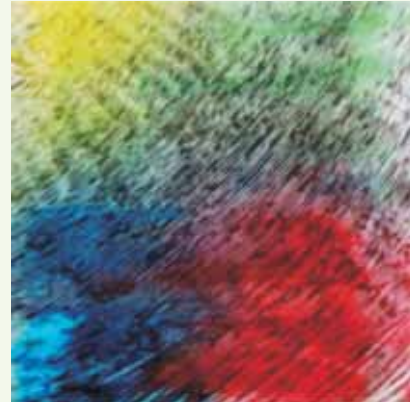
3-1-5 cukoV

cukoV oLrvk dh lrg dk ,glkl gl vkj bl Li'k }kjk le>k tkrk gA ,d lrg ij gekj gkFk dk Li'k ;k bl ij gkFk dk jxMu l gei bl lrg dh ç—fr dk ,glkl gkrk g] tll fd fpduh l [kijnjh] ckyk l ;[ä] xgjh] jirhyh] nkunkj ;k vleryA

cukoV ,l h lrgk dk n'kkirh g] ftuei nk l vf/kd vk;ke gkr g] vkj bl rjg lrg dh x.koÜkk dk c<kr gA mnkgj.k d fy,] j'ke ;k nil.k dh fpduh lrg vkj tV ;k cQl dh cukoV dh lrg tk fpduh ugh gA cukoV ,d jix dh ç—fr ;k ,d vk—fr d 0;fäRo dk cny l drh gA eu"; d : i ei ge Li'k d çfr cgr l onu'khy gkr gA blfy, l Hkh oLrvk dh lrg dh x.koÜkk ;k xBukRed fofo/krk, egRoil.k gA



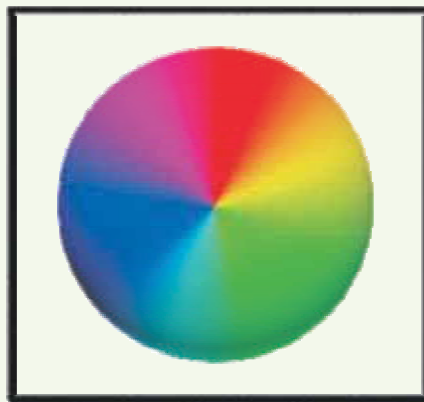
oL= fm t kbu d rRo



cukoV ¼ç—fr e½

3-1-6 jix

jix oLr¼vk dh ,d Hkkfrd fo'k"krk g] tk mud; }kjk ijkoFr: r çdk'k dk ifj.kke gi vkj ;g —';
/kkj.kk d; igy; dk l¼pfjr d¼rk gi ft l; ,d n'kd }kjk igpkuk tk ldrk giA Hkkfrd okrkøj.k
Hkh ,d egRoii.k Hkfedk fuHkkrk gi vkj jix dk çHkkfor d¼rk giA



jix&ifg;k

,d lrg ij jix

mnggj.k d; fy,] vxj dkb; yky] uhyk ;k ihyk dg] rk bu jixk d; ckj; e; l¼uu; ek= l; çR;d
0;fä dk ,d dkQh vyx /kkj.kk gkxh fd çR;d fof'k"V jix dk D;k eryc giA jixk dh /kkj.kk,
l¼L—fr;k] Hkkxkfyd {k=k} me; dh fofo/krk] HkkoukRed] 0;fäxr çkFkfedrkvk; vkfn d; vu;l kj
cnyrh giA ;g] çdk'k] lkexh] lrgk] vkj vU; jixk dh ç—fr vkfn l; çHkkfor gkrk giA



oL= fM t kbu d rRo

vH;k l

- 1- IQn dkxt ij dkyh j:[kkvk ei 8^m x 8^m bp dk ,d oxkdkj çk:i cuk,] Ieku ekVkb¹/₄yxHkx 0-10 feeh¹/₂ dh dij 15 dkyh j:[kkvk dk mi;kx dj] vkj budh yickb¹/₄yxHkx 3^m x 1^m bp¹/₂ gk vkj fuEu ei l çR;d nk mnkgj.k nth
 - d¹/₂ Åij mfYyf[kr d{kk (Square) ei rhu vyx&vyx vdkdjA
 - [k¹/₂ Åij mfYyf[kr d{kk (Square) ei nk vyx&vyx : iA
 - x¹/₂ bu j:[kkvk dk mi;kx dj Åij mfYyf[kr d{kk (Square) ei ,d cukoVA
- 2- IQn dkxt ij dkyh j:[kkvk l 8^m x 8^{**} bp d ,d oxl dk çk:i cuk,] uje&yHM dh 4ch ;k 6ch ifly dk mi;kx dj vkj fuEu ei l çR;d d nk mnkgj.k nth
 - d¹/₂ ç—fr l ,l h cukoV çklr dj ftUg: vki 6^m x 6^m bp oxl ei jxM dj Åij mfYyf[kr oxl ei LFkkukrfjr dj l dr: glA
 - [k¹/₂ ekuo fufeir oLr|vk l ,l h cukoV çklr dj ftUg: vki 6^m x 6^m bp oxl ei jxM dj Åij mfYyf[kr oxl ei LFkkukrfjr dj l dr: glA
 - x¹/₂ ç—fr l yh xbl ,d cukoV dk jxM dj 4” x 4” bp ¹/₄yxHkx¹/₂ dk vdkdj cuk,A
 - ?k¹/₂ ekuo fufeir oLr| l yh xbl ,d cukoV dk jxM dj 4” x 4” bp ¹/₄yxHkx¹/₂ dk vdkdj cuk,A
- 3- IQn dkxt dh i”BHkfe ij dkyh j:[kkvk l 8” x 8” bp d ,d oxl dk çk:i cuk,] ikuh vk/kkfjr jix ¹/₄ikLVj jix¹/₂ dk mi;kx dj r: gl, fuEu ei l çR;d d nk mnkgj.k nth
 - d¹/₂ 1 ¹/₂” x 1 ¹/₂” bp ¹/₄yxHkx¹/₂ d pkj vyx&vyx vdkdj¹/₂ dk mi;kx dj r: gl, ,d ljpuk dk fuek.k dj vkj mUg: pkj vyx&vyx jix ei Hkj: rFkk ,d mi;ä “kh”kd nA
 - [k¹/₂ 2” x 2” bp ¹/₄yxHkx¹/₂ d rhu vyx vyx vdkdj¹/₂ dk mi;kx dj r: gl, ,d ljpuk dk fuek.k dj vkj jix ei vyx cukoV dk çrfuf/kRo dj r: gl, mUg: rhu vyx&vyx jix¹/₂ l Hkj:A

3-2 fM t kbu d fl)kr

fM t kbu d rRo gei gj fM t kbu ;k dyk—fr ei viu: lcf/kr egRo d l kFk ifjpr djkr: glA bu rRok dk ,d l kFk feyku: dk rjhd fM t kbu ;k dyk d : i ei x¹.koUkk vkj jpukRed vkfo”dkj d l kn;!’kkL= dk fu/kkfjr djrk glA

fM t kbu d cfu;knh fl)krk dk lko/kkuh ioid fu;kftr vkj 0;ofLFkr dju: l



oL= fM t kbu d rRo

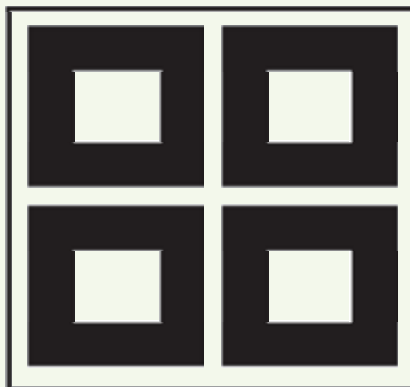
,d fMtkbu ;k dyk—fr vkd”kd fn[k ldrh g] vkj mfpr lryu] le:irk] tkj] vknkyu] iujkofÜk vkj vuc/k egRoil.ki Hkfedk fuHkkr: gA

3-2-1 lryu

ldkjRed vkj udkjRed di chp dk lc/k —’; dyk vkj fMtkbu ei lryu gA ldkjRed dk vk—fr ;k vdkj ;k :i ei tkuk tkrk g] vkj udkjRed dk virjy ;k [kkyh txg di :i ei tkuk tkrk gA ,d fof’k”V lrg ;k LFkku ei fofHkuu vk—fr; k dk yxHkx ,d leku njh ij j[kui ;k vk;kftr dju di }kjk —’; lryu çklr fd;k tkrk g] ;k —’; ei nkunkj dk dæ ei j[kri g,] vFkok ,d crjrhc <x l j[kui di }kjk ,d vukipkj d lryu cuk;k tk ldrk gA

bl çdkj lryu nk çdkj dk gk ldrk g] lefer lryu vkj fo”ke lryuA

lefer lryu% ,d ‘krjt ckM] ,d ijh rjg l lefer lrfyr jpuk dk ,d mnkgj.k g] gkykfd bldh lku;Red lQyrk lfnX/k gk ldrh g] A bl rjg dk lryu gj rjg dh xfr dk vojkf/kr djrk g] vkj tc rd bl ,d ifj”—r rjhd l u lHkkyk tk,] virr% le; dh fd lH Hkh vof/k di fy, #fp dk ck/k j[kui ei foQy jgrk gA tc rd bl l{e fojk/kkHkk l k vkj ruko l l fØ; u fd;k tk,] ;g fLFkj] il.k] ljjf[kr] ifjfr vkj vir ei v—’; g] vkj bl çdkj] fuji{k xf.krh; le:irk dh vkj tkrk gA

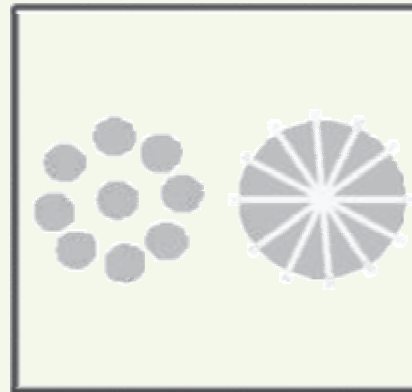
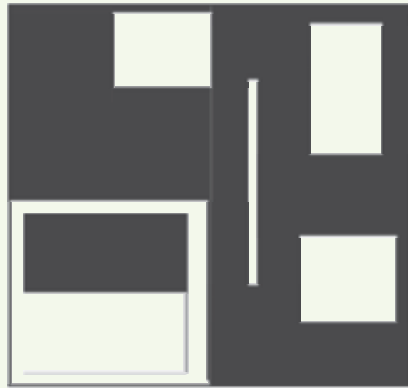


fo”ke ¼v lefer½ lryu

fo”ke lryu% bl çdkj dk lryu rc çklr fd;k tk ldrk g] tc ,d ljpuk ei —’; çHkRo di ,d {k= dk ,d v/khuLFk dh Hkfedk yui oky; vU; {k=k di lFk l; ä fd;k tk,A blei otu di vykok vU; x.l.kk dk lryu ‘kkfey gA ,d Bkl vkj [kk[ky: :i di chp] ,d Qhdk uhyk vkj ,d xgjk yky ;k ,d cMk ldkjRed vkj ,d NkVk udkjRed virjy tc n’kd dk ,d lryu di :i dh yhd l gVdj ,d —’; vfhkO;ä ei Hkxk yui di fy, vkef=r djrk g] rc fo”ke lryu ik;k tk ldrk g] vkerkj ij bl fo”ke lryu di :i ei tkuk tkrk gA



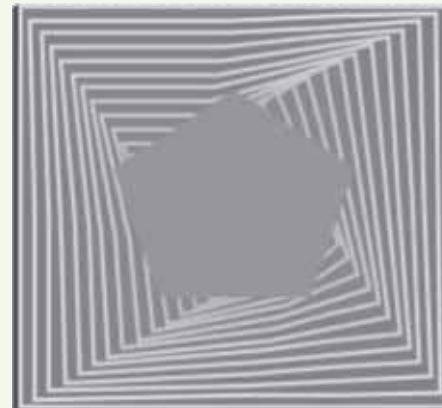
oL= fM t kbu d rRo



lryu&v lefer

3-2-2 xfr

,d fM t kbu ;k dyk—fr ei ,d —'; vfHk0;fä dk xfr dgk tkrk g] blei fofHkUu rRo ,d fo'k" k
 çokg ;k fn'kk ei iijh rjg l n[ku d fy, gekjh vk[kk dk fM t kbu oLr ;k ljpuk d pkjk vkj
 LFkkukrfjr dju d fy, etcj djr gA tcf d] rRo xfr'khy ugh gkr g] ;g xfr dk Hke g] ft l
 ,d fM t kbuj ;k ,d dykdj }kjk : ik vkj vdkj dh fLFkr ;k iujkoFÜk }kjk cuk;k tkrk gA
 ,d fM t kbu ei xfr dh vuHkfr bl fM t kbu d çfr n'kd dk dh çfrfØ;kvk dk rhoirk l çHkkfor
 dj l drh gA



xfr

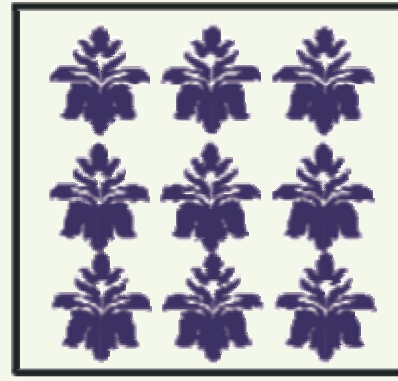
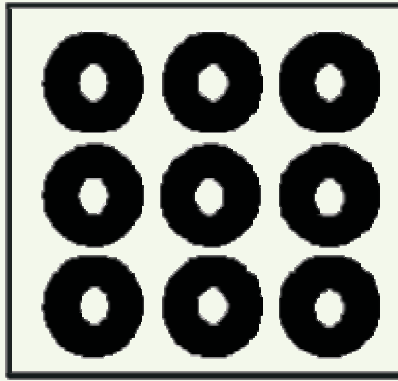
3-2-3 nkgjko (Repetition)

nkgjko] dk eryc ,d gh pht dk ,d ckj dh vi{kk ckj&ckj nkgjkuk ;k vudj.k djuk gA
 fM t kbu ei jix] : i] vdkj] j[kk tll rRok dk bl rjg l nkgjk;k tkrk g] ft l l ,d fM t kbu
 ;k dyk—fr ,d —'; y; cuk d l kFk&l kFk ,d fM t kbu d lex çHkko dk ,dh—r djr gA
 ç—fr ei nkgjko ,d cgr gh vke —'; g(ge lc bl ,d Qy dh i[kfM;k] ifÜk;k ij cu iVu]



oL= fm t kbu d rRo

,d rñv k ;k tick dh [kky ij n:[kr: g]A



nkgjko ¼iujkofÜk½

nkgjko ;k iujkofÜk d: rhu cfu;knh çdkj g]

i. vuØe% fu;fer iujkofÜk

'kV d: cVu dh ,d ifä ;k ,d tick d: 'kjh ij cuh /kkfj;k dh rjg fu;fer : i l: ;k FkkM: vyx virjky ij fcnvki j:[kkvki] vdkjki ;k : iki dh iujkofÜkA

ii. y;% mnkÜk iujkofÜk

mnkgj.k d: fy,) eu"; vkj ç—fr ei ,d xgjh y; ikbi tkrh g] mnkgj.k d: fy,) pyu] nkMu: vkj l k l yu: ei] ek le ei] pkn d: pj.kk ei] leæ d: Tokj] i'kvki] if{k;k vkj dhMk dh vkokt] lHkh ei ,d y; gA y; ;k rky ei etcr vkj detkj Linu d: }kjk fufe: r fn'kkRed xfr gkrh gA cM: vkj NkV: fcnvki ¼vkj j:[kkvki] dk fofHkUu dfir ink ei 0;ofLFkr dju: d: }kjk ,d rkyc) vuØe cuk;k tk l drk gA ;g fu;fer : i l: nkgjki tkui okyh ,d /kMdu ;k ukMh dh riyuk ei vf/kd gA bld: fcuk fd l h vkHk" k.k ;k l tkoV dh fd l h ijiijk dk vfLrRo ugh gk l drk gA cukb] Vkdjh cuku] cukbi vkfn t l h f'KYi rdudhki ei Hkh rkyc) nkgjko ik, tkr: gA

etcr vkj detkj ygt] mBr: vkj fxjr: 0;ogkj] LFkku d: foLr'r vkj l dh.ki virjky] ;k cnyr: fdukji dk ,d l: ;ktu vkd"kd xfr mRiUu djr: gA

iii. Lkriyu% fLFkj nkgjko ¼iujkofÜk½

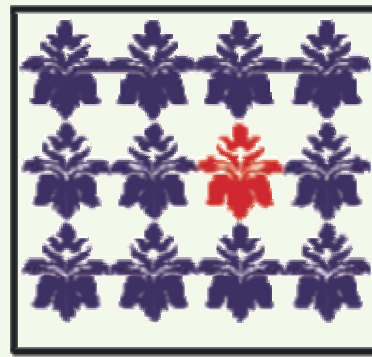
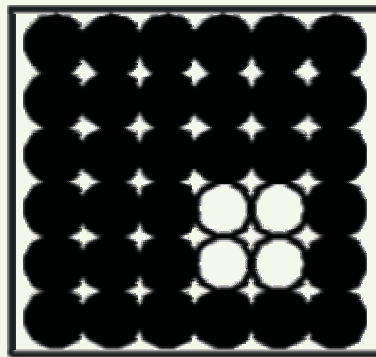
bl fLFkj iujkofÜk gA blei cgr l h ckr: Øe vkj rky d: l kFk vke gk l drh g] ij ;g ,d fu: rj ekx: d: l kFk xfr dk l >ko ugh nirkA l riyu dk l dkjkRed vkj udjkRednkuk d: chp ,d euHkkou l kgkni: l k l c/ k d: : i ei ifjHkkf"kr fd ;k tk l drk gA l riyu x: #Rokd" k.k d: dæ ei ,d iij d: fofHkUu Hkkj dk l xBu gA ;g ,d l c/ k g] t gk iij d: l Hkh Hkkx vkjke l fLFkr gA



oL= fM t kbu d rRo

3-2-4 t k j ¼çHkko@egRo½

,d fof'k"V okfNr {k= ;k rRok ;k ,d fMtkbu d ,d gh rRo ij /;ku dıfær djuk t k j nuk gA
;g ,d lıjpuk eı ckdı dh rıyuk eı ,d ;k ,d lı vf/kd rRok dk vyx dırk gA ,d fMtkbu
ılk dıuı dı }kjk #fp dı {k= cuk l drh gı t k gekıh v k [k dı ckı&ckı okı l m l h {k= ij vkuı
dk dkı.k gk l drk gA

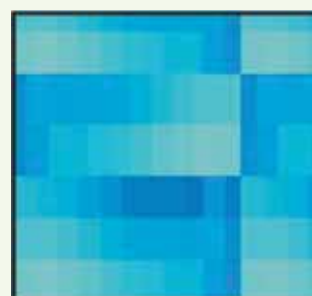


t k j

/;ku vkdf"kr dıuı v k j çLrır fopk j dı egRo dk Li"V :ı lı crkuı dı fy, bldk ç;kx fd;k
tkrk gA food dı l k Fk ç;kx fd, tkuı ij t k jı ,d vkd"ı.k mRıUu dırk gı t k v dıyı ey ughı nı
l drkA foıjhr :ı lı & ;g fMtkbu dı rRok ;k flı)krk eı lı fd lı ,d fuıe dı l k g lı h vuç;kx
dı }kjk —'; vuıfr dk fopk j gA

3-2-5 fojk/kkHkk l ¼foıjhr r k½

,d fMtkbu eı fojk/kkHkk l dk eryl gı fd bldı dN rRo vııj gkuı dh otg lı dh otg lı vU;
rRok lı vyx fn[krı gı ;k oı leku ughı gı] mnkgı.k dı fy,ı oxı] oÜk v k j f=dk.k t lı vkdkıA
mnkgı.k dı fy,ı ,d jıx pØ eı foıjhr jıx dk ç;kxA fojk/kkHkk l ph t k dk vyx dırk gı fojk/
kkHkk l dh deh lıy Nykoı.k dk urRo dı l drh gA nı lıh v k j ,d fMtkbu ;k fp= eı cıır T;knk
fojk/kkHkk l ey dk u"V dı l drk gı v k j —'; Hke dh fLFkr ıınk dı l drk gA bıfy, ;g ,d
fMtkbu eı ,d j l rk lı fııVuı eı enn dırk gA



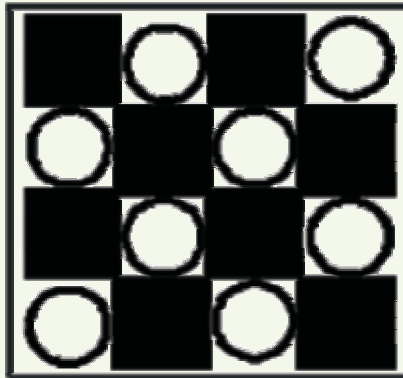
fojk/kkHkk l ¼foıjhr r k½



oL= fM tkbu d rRo

3-2-6 ,drk

,d fM tkbu e ,drk l nHkko dk çklr dju d fy, ,d fM tkbu e fofHkUu rRok dk ,dh—r tMko gA ;g n'kkirh gl fd ,d fM tkbu e gj rRo dk leku egRo vkj eY; gA ;g rRok d chp dk lc/k gl tk mu lc dk ,d fM tkbu ;k fp= e ,drk dk ,d —'; Hkko nu d fy, ,d lkFk dke dju e enn djrk gA



,drk

lkjk'k

;g v/;k; fM tkbu dh cfu;knH Hkk"kk vkj bld lkFk tMh egRoil.ki bdkb;k dh iijh le> dk o.ku djrk gA ,d fM tkbu e fM tkbu d lkFk fofHkUu cfu;knH fl)kr tMh gkr; gl ftud fcuk fM tkbu dk u rk foLrkj l crk;k tk ldrk gl vkj u gh le>k tk ldrk gA fM tkbu d fofHkUu rRok dk tkuuk egRoil.ki gA [kM 3-1 e fM tkbu d j:[kk] vkdkj] :i] virjky] cukoV vkj jix tll fofHkUu rRok dh ppk dh xb gA [kM 3-2 mu fl)krk dk crkrk gl ft l ij fM tkbu vk/kkfjr gA ble liryu] xfr] iujkofÜk] tkj] fojk/kkHkk l vkj ,drk 'kkfey gl tk oL= fM tkbu d lc/k e foLrkj l crk;k x;k gA v/;k; e lHkh igyvka dk —'; l nHk d lkFk le>k;k x;k gA f'k{k.k dh vf/kdk'k i)fr çfØ;k vk/kkfjr vkj 0;kogkfjd f'k{kk dh vkj mUe[k gA bu igyvka d ckj; e tkuu l Nk=k dk fM tkbu dh cfu;knH ckrk d lkFk ifjpr gku e enn feyrh gl vkj ;g vx; mUg oL= fM tkbu d {k= e vko';d rdlxr lkp vkj fM tkbu fl)krk d vuç;kx d lkFk fM tkbu cuku e l{ke djxkA



oL= fM t kbu d rRo

vH;k l

1- IQn dkxt ij dkyh j[^{kkvk} e^{8" x 8"} bp d^{oxl} dk ^{çk}: i cuk,] fofHkUu vdkj] : i vkj cukoV d^{lkFk} dky^{jix} e^{U;ure 7 l 15 j[^{kkvk} dk mi ;kx dj]} vkj fuEu e^{l çR;d} d^{nk mnkgj.k n}

d^½ Iefer lryu

[^{k½} vlefer lryu

x^½ nkgjko

?^{k½} xfr

^{3 ½} fojk/kkHkk l -

2- IQn dkxt dh i"BHkfe ij dkyh j[^{kkvk} e^{8" x 8"} bp d^{oxl} ^{çk}: i cuk,] ikuh vk/kkfjr jix^{¼ ikLVj jix½} dk mi ;kx d^{jr gl}, fuEufyf[^{kr e l çR;d} dk ,d mnkgj.k n

d^½ 1 ½" x 1 ½" bp ^{¼yxHkx½} d^{pkj vyx&vyx vdkjk} dk mi ;kx d^{jr gl}, ^xfr* dk çfrfuf/kRo dju^{okyh ,d ljpuk dk fuek.k dj vkj mUg pkj vyx&vyx jix l HkjA}

[^{k½} 2" x 2" bp ^{¼yxHkx½} d^{rhu vyx&vyx vdkjk} dk mi ;kx d^{jr gl}, ^tkj* dk çfrfuf/kRo dju^{okyh ,d ljpuk dk fuek.k dj vkj mUg rhu vyx&vyx jix l HkjA}

oL= fM t kbu d rRo



bdkb 3
oL= fM t kbu
fodk l



oL= fM t kbu d rRo

v/;k; 4

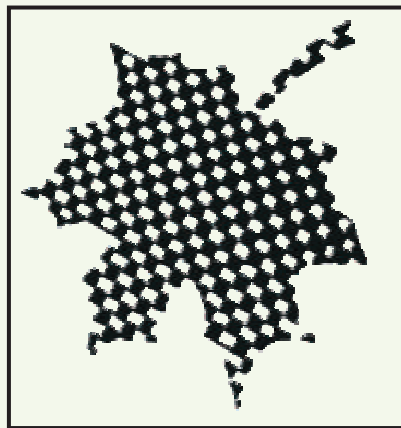
oL= fM t kbu d ?kVd

4-1 vk—fr vkj : i dk fodkl

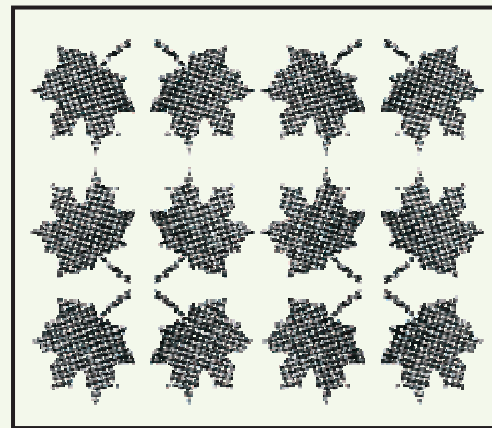
: ikdu %ekfVQ% D;k g vkj : ikdu vkj : i mRiUu dju d fy, oL= fMtkbu e vu|lj.k fd, tkui oky fofHkUu rjhd vkj çfØ;k, D;k g\

bl v/;k; e ge : ikdu mRiUu dju dh fofHkUu çfØ;kvk d ckj e tkuixA

: ikdu vkj : i% : ikdu ,d ey bdkb ;k fMtkbu rRo g] ft le Ikin;I'kkL= dh ,d fo'k" 'kyh d vk/kkj ij dN ifjHkkf"kr fo'k"krk, gkrh g vkj fofHkUu nkgjko ;ä iVui cuk d fy, oL= fMtkbu e bldk mi;kx fd;k tk ldrk gA blh çdkj : i ,d u;k vkdkj mRiUu dju d fy, dkb Hkh —'; vkdkj ;k vkdkj d d l;ktu gk ldrk gA



: ikdu



iujko'Ük

: ikdu vkj : i dk fodkl% oL= fMtkbu ey fopkj vkj vf}rh; fMtkbu vo/kkj.kkvk ij iuirk gA : ikdu ;k fMtkbu dh ,dy bdkb] tk fd lh Hkh diMk fMtkbu d nkgjko e e[; ;kxnu dkjd g] ,d cgr egRoil.k Hkfedk fuHkkrk gA

viu nfud thou e ge fofHkUu fMtkbuk@oLrvk d Iidi e vkr g vkj o vkdkj@rRo@jx gekj efLr"d e —'; Iipuk d : i e cjdjk jgr gA mUg rkMu vkj dN ,lk cuk d Øe e tk ,d ekfyd fopkj gk] fofHkUu çfØ;kvk ;k rjhd d ykx dju dh vko';drk gkrh g] rkfd ge ,d : ikdu ;k fMtkbuk d leg cuk l d] tk gekjh çj.kk] fopkj çfØ;k d n'kk, vkj lKf gh ekfyd Hkh gkA



oL= fm tkbu d rRo

vc ge : ikdu vkj : i fodkl d dN ykdfç; rjhdk ij ppk djx:A

1- ç—fr vkj ekuo fufeir oLrvk d v/;;u ek/e l fofHkUu : ik vkj : ikduk
dk l' tu% bl fof/k e ge fd l h Hkh çk—frd ;k ekuo fufeir oLrvk l çj.kk y l dr g
vkj ge ekfyd vkdkj dk cjdjkj j[kr g, fofHkUu 'kfy;k e bl fp=r dj l dr gA

pj.k 1 % eiy iÜkh & çj.kk

fd l h Hkh çk—frd oLrv l çj.kk y vkj bl bld ey : i e vldr djA



eiy dk iÜkk & ey Mkbx

pj.k 2% eiy iÜkh & : ikdu djuk

fofHkUu vk—fr mRiUu dju d fy, fofHkUu 'kfy;k e eiy d iÜk cuk,j t l

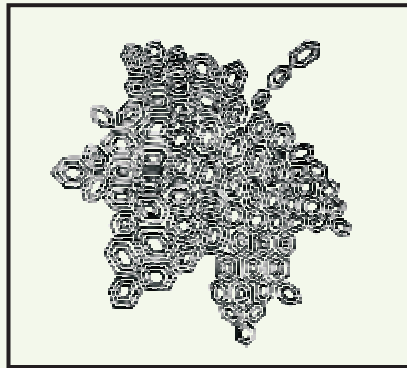
d½ T;kfefd% eiy d iÜk d ey vkdkj d fy, fuEufyf[kr T;kferh; vkdkj dk
mi;kx& fp= 1 vkj 2-

[k½ l tkovh% ,d eiy d iÜk d vkdkj e l tkovh ey Hkko mRiUu dju d fy, Mkbx
dh tfVy vkj l tkovh 'kyh dk mi;kx & fp= 3-

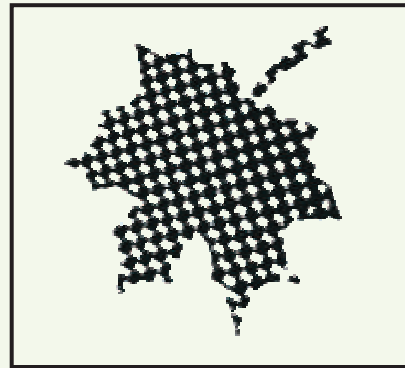
x½ 'kyhxr% bldh 'kyh dk ,d vvx 'kyh e cny dj eiy d iÜk vkdkj cuk,j &
fp= 4



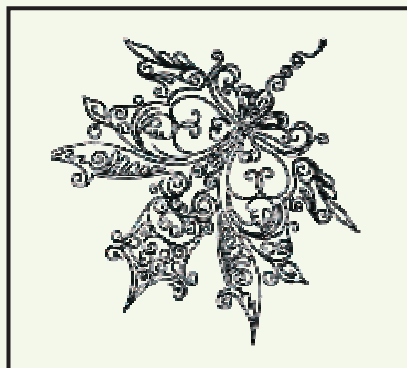
oL= fm t kbu d rRo



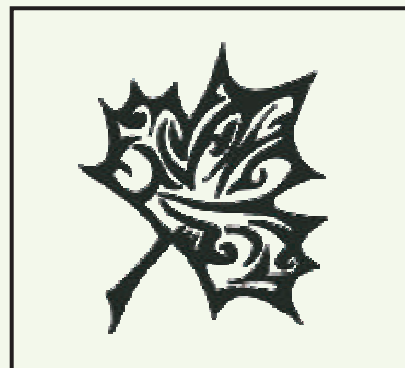
1



2



3



4

2- : i kUrj.k dh çfØ;k d ek/e l fofHkUu : i k dk l'tu% : i kUrj.k ,d çfØ;k g] tk fofHkUu oLr vk l vyx&vyx rRok dk tkM rh gl vkj mUg ,d d : i e l ;kftr dju d fy, mue l çR;d dk cnyrh gA ;g ç—fr e ikb tku okyh fodkl dh çfØ;k l çfjr çfØ;k gA ge uhp d ,d mnkgj.k d ek/e l bl çfØ;k dk le>u dh dkf'k'k djr gA pj.k 1% fd lh Hkh nk ;k nk l vf/kd çk—frd oLr vk dk y vkj mUg mud ey : i e fpf=r djA bl mnkgj.k e geu rhu thfor çkf.k;k l çj.kk yh gl & ?kkMk] phy vkj exkA



pj.k 2% fd lh ,d çe[k fo'k'krk dk j[kr gl, rhu : i k dk fpf=r dj vkj mUg ,d lkFk tkM:A bl fofHkUu pj.kk d mi;kx }kjk Hkh fd;k tk l drk gl %fp= ck,%A



oL= fm t kbu d rRo

pj.k 3 % vko'; drk d vu|lkj mue jix Hkj: ¼fp= nk, ½



3- ,d fo"k; ckMl d fuek.k d ek;/e l fofHkUu : ikduki dk l'tu fd l h Hkh ç l x@fo"k; dk y vki bld ckj e vu|/kku dja fofHkUu fp=k dk bdëk dja vki ,d l kin; kRed rjhd l mUg ,d l kFk feyk, A ;g vkidk fo"k; ckMl g] tk ,d diMk fm tkbuj d fy, : ikduki dk mRiUu dju e vki dke dju d fy, ,d -'; d ckj e tkudkjh d l kFk&l kFk -'; çj.kk d : i e dke djr gA vc ge jkf'k; k l çfjr ,d fo"k; ckMl l bl igy dk le>u dk ç;kl djr gA

pj.k 1&fo"k; ckMl dk fuek.k



pj.k 2% fo"k; ckMl e n'kk; x, jix@eM@cukoV vki : ik l çj.kk yu d ek;/e l : ikduki dk l'tu fd; k tk, xkA eM ckMl d rRok l çfjr fofHkUu ueu cuk, vki : ikduki mRiUu dju d fy, mue jix@cukoV tkM A Åij n'kk; x, fo"k; ckMl d ek;/e l mRiUu : ikduki d uhp fn, x, mnkgj.k n[kA



oL= fM t kbu d rRo



: ikdu 1



: ikdu 2

vH;kI

- 1- j[kkfp= cuk, d fy,) fdUgh rhu çk—frd çkf.k;k y] ,3 'khV ij ifly l dky vkj lQn jx e vk—fr;k cuk, vkj : ikUrj.k dh çfØ;k d ek/e l ,3 'khV ij ,d #ikdu mRiUu djA
- 2- fd l h çk—frd ;k ekuo fufeir oLr dk y& vkj ,3 'khV ij bld ey : i e bldk j[kkfp= cuk,A ,3 vkdkj dh 'khV ij bll çfjr 3 T;kferh; vkj 3 vy—r 'kyh d : i ¼,d 'khV ij 3 : ikdu½ cuk,A
- 3- fd l h Hkh fo" k; dk pu vkj ,d ,3 vkdkj dk fo" k; ckMl cuk,A fo" k; ckMl l çj.kk ydj 6" X 6" bp vkdkj d 4 : ikdu cuk,A

4-2 ueuk vkj vk/kkjHkr nkgjko

ueuk 'kCn l ,d —'; çHkko dk lnfHkr fd;k tkrk g] tk ,d ;k ,d l vf/kd rRok d mÍ'; ;ä vki l h lci/k ij vk/kkfjr gA vkerkj ij bl dN rRok ;k ?kVd Hkxk dh iujkofÜk }kjk çlir fd;k tkrk gA oL= fMtkbu e] fMtkbuk dk bl çdkj l ;kft r fd;k ;k cuk;k tkrk g] fd ,d fMtkbu bdkb dk ,d l ,d feykdj ,d diM dh ijh pkMkb e vkj ueu e fd l h Hkh rkm d fcuk ,d fu;fer : i l fujrj çokg e diM dh ijh yckb e ,d Nkj l nllj Nkj rd nkgjk;k tkrk gA

blfy, ueuk vkj nkgjko yxHkx l Hkh oL= fMtkbu dk;k] fo" k" : i l diM dh py jgh yckb d cgr gh egRoil.ki vkj vfHkUu vix g] mi;kx fd, tkur oky dN cfu;knh nkgjko gl& l h/kk nkgjko] gkQ M,i vkj nil.k nkgjkoA



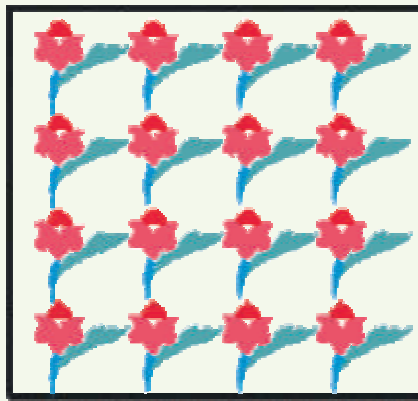
oL= fM t kbu d rRo

4-2-1 Ih/kk nkgjko

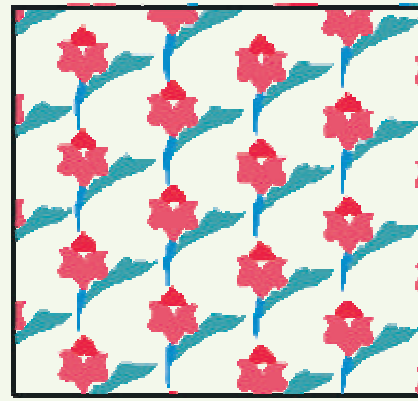
,d Irr iVuI cuku d fy, ,d fM t kbu bdkbI dk ,d oxkdkj fxM çk : i e j[kdj {kfr t vkj Å/ok/kj nkuk rjQ l Ih/k j[kkvk e ,d nIj di cxy e nkgjkdj Ih/k ykbuk e l jyre iujkofÜk gkfly dh tkrh gA

4-2-2 gkQ Mⁱ,i nkgjko $\frac{1}{4}\text{Å/ok/kj}\frac{1}{2}$

yckbI dh fn'kk e ,d Å/ok/kj v{k e fM t kbu bdkbI dk vk/kh njh rd f[kl dku ;k fxjku d } kjk gkQ Mⁱ,i nkgjko çklr fd;k tkrk gA ble fHkUurk çklr dju di fy,) vk/kk ;k ,d frgkbi tI vU; vi'kk di Mⁱ,i dk Hkh ykx fd;k tk l drk gA



Ih/kk nkgjko



gkQ&Mⁱ,i nkgjko $\frac{1}{4}\text{Å/ok/kj}\frac{1}{2}$

4-2-3- biV $\frac{1}{4}\text{fcd}\frac{1}{2}$ nkgjko $\frac{1}{4}\{kfr t\}\frac{1}{2}$

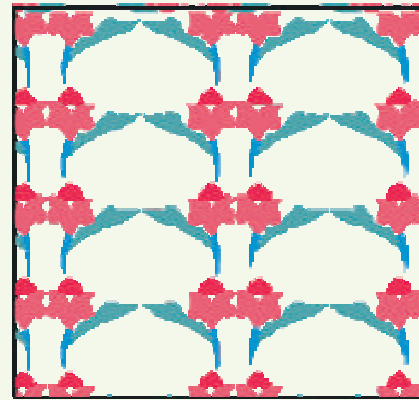
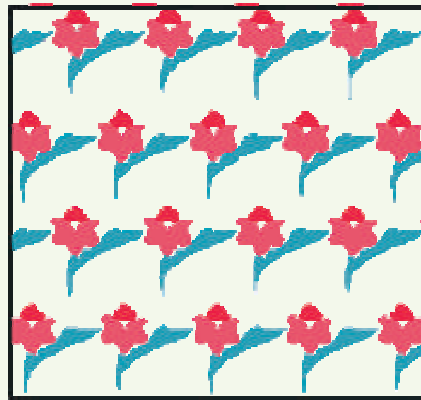
biV nkgjko dk Vky nkgjko Hkh dgk tkrk gI vkj ;g ,d vU; l jyre çdkj dk nkgjko gI tk Å/ok/kj gkQ Mⁱ,i nkgjko dh cfu;knh ckrk dk vuIj.k djrk gI flok; bldi fd biV nkgjko e fM t kbu bdkbI dk ;k rk nkfgu vFkok ck, i{k&ij nkgjk;k tkrk gI vkj nIj ifä e bdkbI vk/kh njh ij {kfr t fn'kk ;k pkMkbI dh vkj cny tkrh gA bl nkgjko fofHkUurk e Hkh cnyko dh ek=k çklr dh tk l drh gA

4-2-4- niI.k nkgjko

niI.k nkgjko gei vuid çdkj di vyx&vyx nkgjko çklr dju dh l Hkkouk, ni l drk gA fM t kbu bdkbI di ,d {kfr t niI.k fp= gei lcl l jyre niI.k nkgjko nirk gI vkj Å/ok/kj niI.k fp= Hkh ,lk gh djrk gA fM t kbu dh ,d cMh fefJr bdkbI iku di fy, {kfr t ;k Å/ok/kj niI.k nkgjko dk fQj l foijhr fn'kk e ifjofrir fd;k tk l drk gI vkj vkx Ih/k ;k gkQ Mⁱ,i nkgjko dk mi;kx djrk g, bl nkgjk;k tk l drk gA

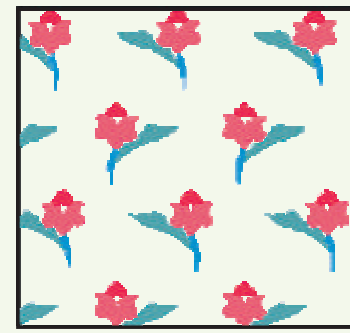
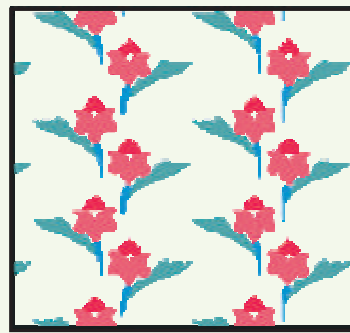
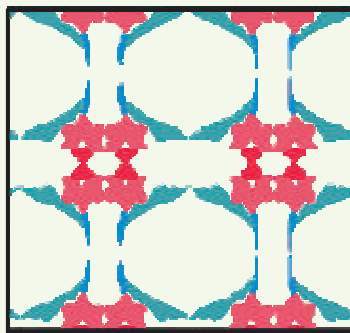


oL= fM t kbu d rRo



bV nkgjko $\frac{1}{4}\{kfr t\}$

nil.k nkgjko



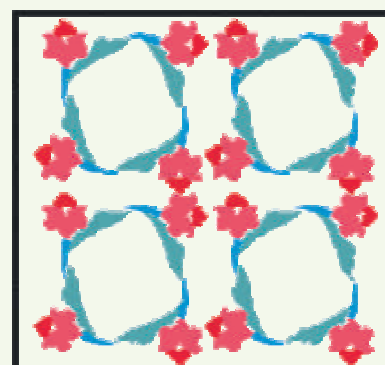
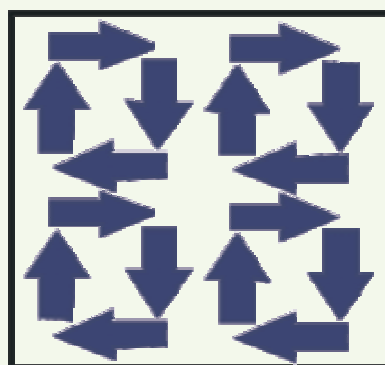
nil.k nkgjko $\frac{1}{4}fJr \&$
 $\frac{1}{4}Å/ok/kj, o\{kfr t\}$

gkQ M,i nkgjko
 $\frac{1}{4}Å/ok/kj nil.k\frac{1}{2}$

gkQ& M,i nil.k
 $\frac{1}{4}\{kfr t\}$

4-2-5 ?kf.kr (Rotate) nkgjko

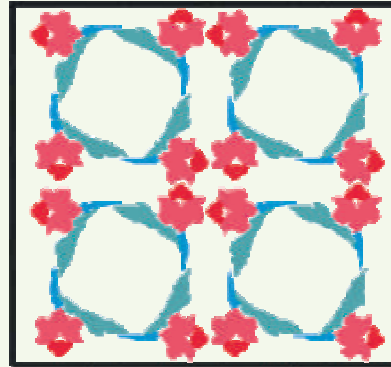
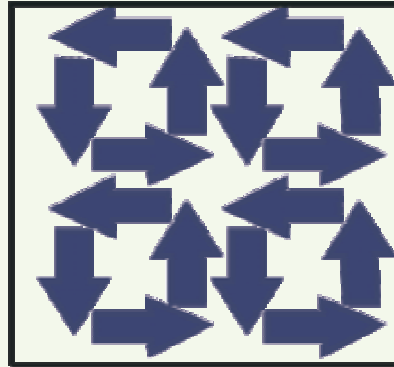
,d u;k iVu! ;k fMtkbu bdkbi çk!r dju: d! fy, fMtkbu dh ,d bdkbi dk ckj&ckj ?kMh dh
l!b; k! dh fn'kk e! ;k mld! foijhr j[kk tk ldrk gA ;g ub! bdkbi igy! mfYyf[kr vU; l k/kkj.k
nkgjkok! dk mi;kx dj vU; iVu! cuk ldrh gA



?kf.kr nkgjko $\frac{1}{4}nf\{k.kkor\}$



oL= fM t kbu d rRo



?kf.kir nkgjko ¼okekor½

vH;k l

1- lQn dkxt ij ifly l 12" x 12" bp d oxl dk çk: i cuk, j Bkl dky;
;k ç—fr l çfjr fd lh , d jix l 1 ½" x 1 ½" ¼yxHkx½ dk , d : ikdu cuk, j
vkj fuEu e l çR; id d , d mnkgj.k dk çrfuf/kRo dju d fy, bl vk—fr
dk 9 l 12 ckj mi; kx dj

d½ lh/kk nkgjko

[k½ gkQ&M, i nkgjko ¼Å/ok/kj½

x½ bV & nkgjko ¼{kfr t½

?k½ nil.k nkgjkoA

2- lQn dkxt ij ifly l 12" x 12" bp d oxl dk çk: i cuk, j nk jixk e
ekuo fufeir oLrvk l çfjr 1 ½" x 1 ½" yxHkx dk , d : ikdu cuk, j g
nk mnkgj.k fuEu e l çR; id d nk mnkgj.k dk çrfuf/kRo dju d fy, bl
vkdj dk 6 l 9 ckj nkgjk, %

d½ ?kMh dh l b; k dh fn'kk e ?kf.kir nkgjko

[k½ gkQ M, i Å/ok/kj nkgjko

4-3 fM t kbu yivkmV vkj ly l eV

, d fo'k'k fpàr l rg {k= ; k , d fM t kbu çfØ; k e pkMkb] yickb] fofuek.k çfØ; k
vkj diM; ;k oL= d vfre mi; kx dk /; ku e j[kr gi, vkj fofHkUu fM t kbu rRok
; k : ikduk; k ueuk dh ikft'kfuix ; k 0; oLFkk dk oL= fM t kbu çfØ; k e fM t kbu
yivkmV ; k fM t kbu fu; fä d : i e tkuk tkrk gA

: ikduk vkj ueuk dk 0; ofLFkr dju d db rjhd gi vkj ; 0; oLFkk, fofHkUu çdkj d yivkmV



oL= fM t kbu d rRo

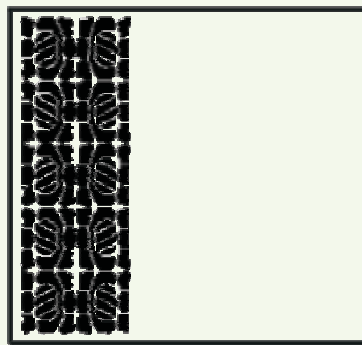
çnku dj ldrh gA fMtkbu yvkmV cukuk oL= fMtkbu çfØ;k dk ,d vfHkUu fgLIk gI tk ,d oL= mRikn dk lInj vkj vfHkuo –'; Hkko dh vkj yI tkrk gA

tc ,d fMtkbu dk diM dh lrg ij iu% çLr r fd;k tkrk gI rc bl nkgjko dI : i e fMtkbu dh ,d ekud bdkbI eI rI;kj vkj ifjofrir fd;k tkuk pkfg,A bl ekud bdkbI dk ,d fof'k"V vkdkj] eki eI gkuk vkj : ikduka dh ,d 0;oLFkk dk ikyu djuk vko';d gA cM ileku eI gk ldrk gI vkj : ikduka dh ,d 0;oLFkk dk ikyu dju dh t:jr gA tIk fd igy mYy[k fd;k tk pdk gI fMtkbu yvkmV vkj fu;fä;k dk ge'kk vfre mRikn dI vk/kkj ij fu/kk'fjr fd;k tkrk gA

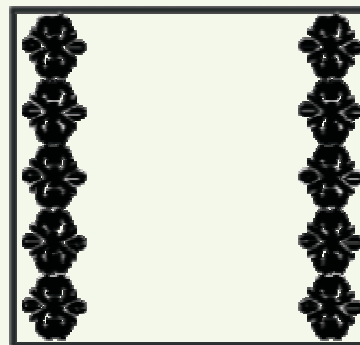
Quhf'kx ;k ik'kkd&lkexh dI diM dI ekey eI iij eI ;k crjrhc <x lI fc[kj x, ;k eä lyIleV dk iIn fd;k tkrk gI tcfD fcLrjk dh pknj] jtkbI dI dky] d'ku doj] dkyhu] LdkQI vkj lMh] vkfn dI ekey eI fMtkbu yvkmV eI fdukj] dæh; eI ; lrg ;k c,Mh] dkuk vkj bu mRikn dI fdukj] vkj mudI lcf/kr mi;kx dI

lketL;iI.kI lcf/k dk /;ku eI j[kk tkrk gA lMh eI ,d rjQ dI 0;kid fdukj: $\frac{1}{2}c, Mj \frac{1}{2}$ dk ^iYy* dgk tkrk gA bu dbI ijLij 0;oLFkvvk vkj dhukj] lex: : ikduka vkj eMfy;u dk ,d lFk j[ku dk oL= fMtkbu eI ^bithfu;j* yvkmV dI : i eI tkuk tkrk gA

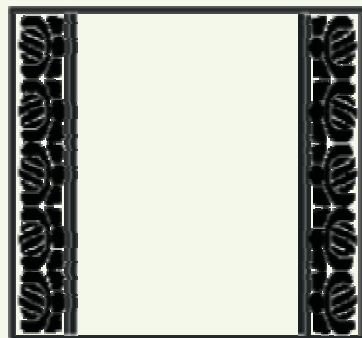
vc ge uhp fn, x, fofHkUu yvkmV vkj lyIleV ij xkj djr gA



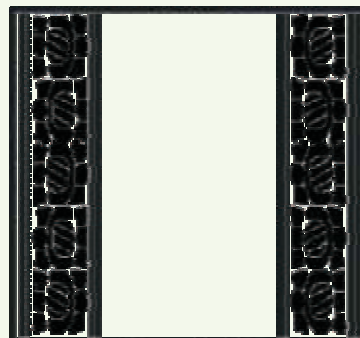
c,Mj



[kyk c,Mj



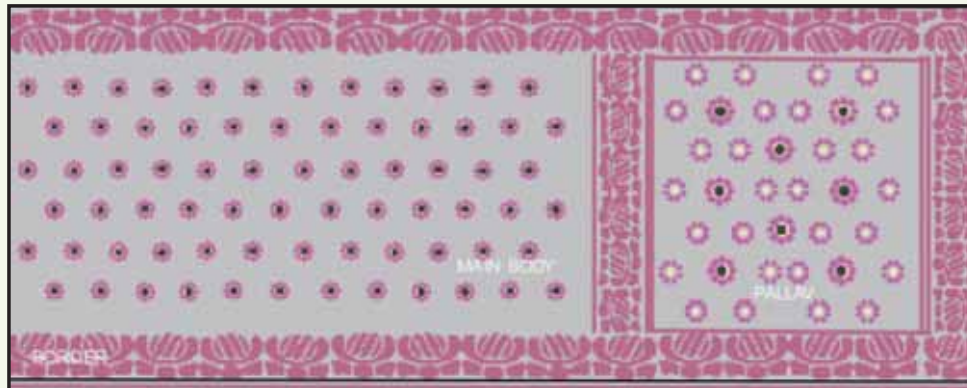
,d rjQk [kyk c,Mj



cn c,Mj



oL= fM tkbu d rRo



I kMh fM tkbu% e[; Hkx] c,Mij vkj iYy c,Mij fM tkbu ij : ikdu



bthfu;j ly!eV@ y:vkMv

4-4 jix d rjhd ¼dyjot ½

oL= fM tkbu e[,d fM tkbu ;k fM tkbu bdkb di ,d ;k ,d l vf/kd fodYi cuku di fy, ek tnk jix dk u, vyx jixk l cnyuk ,d jix rjhd dgykrk gA ey jix dk n l j jixk }kjk çfrLFkkr dju di vfrfj ä ey fM tkbu e l c dN igy t l k gh jgrk gA jixk dk ifjofrir vkj çfrLFkkr dju l ey fM tkbu vkf'kd : i l ;k dkQh ifjofrir gk tkrh gA mnkgj.k di fy,) vxj ,d ey fM tkbu e ikp jix g[rk bl fM tkbu di jix d rjhd e Hkh ikp jix gkx[vkj vU; l Hkh jix d rjhd e Hkh ,l k gh gkxkA ;g ;kn j[kuk egRo i.k g fd vU; rRok di vkdkj] : i] vkdkj vkj LFkku fcYdy ugh cnyr gi(doy jix cnyrk gA

jix rjhd cuku e ikyu fd;k tku okyk l cl l lkekU; rjhd ey fM tkbu di vu l kj jix dh rho:rk vkj eY; cuk, j[k dj jixk dk cnyuk gA

jix d rjhd e[; : i l xkgdk di fy, fodYi çnku dju ;k LFkkuh;] {k=h; lkekftd l l—fr di vk/kkj ij g[vkj 0;kolkf;d dkj.kk di mRiknk dh fcØh c<ku di fy, viuk, tkr gA



oL= fM t kbu d rRo



ey jix ¼çkj fHkd fM t kbu½

jix rjhdK &1
¼ey dk jix fodYi 1½

jix rjhdK &2
¼ey dh jix fodYi 1 l 2½

vH;k l

1- lQn dkxt ij ifly ei 8” x 8” bp d oxi dk çk: i cuk,½ 1” x 1” ¼yxHkx½ dk ,d : i kdu cuk,½ bl vk—fr dk vyx&vyx >|dko ei mi; kx dj vki nk fuEufyf[kr ei l çR;id d nk mnkgj.k n

d½ dky: <kp ei ,d lex: ueuk ¼iVu½ l rg cuk,A

[k½ dky: <kp ei 1 ½” pkMkb: dk ,d c,Mij cuk,A

x½ lex: : i kdu ueu: ¼iVu½ vkj c,Mij dk mi; kx djr: g, flj d ,d LdkQ: d fy, yvkmV r: kj djA

2- d½ Ng jixk: dk mi; kx djr: g, lQn dkxt ij 12” x 12” bp ei flj d LdkQ: d fy, ,d fM t kbu cuk,A vki Åij d vH;k l l- 1-x d iVu: vkj yvkmV dk mi; kx dj l dr: gA

[k½ flj d LdkQ: d fM t kbu ¼,d gh vdkj e½ d nk jix d rjhd: cuk,½ vH;k l l- 2-d dk mi; kx djA

3- lQn dkxt ij 4 l 8 jixk: dk mi; kx djr: g, 15” x 9” bp ¼yxHkx½ ei 1 ½” x 1 ½” ¼yxHkx½ bp dh fd l h Hkh : i kdu dk mi; kx djr: g,½ l kmh d fy, ,d fM t kbu cuk,½ vkj 2” bp dk ,d l efUor c,Mij pkMkb: ¼yxHkx½½ vkj ^iYy* d: i ei yxHkx 5” bp pkMkb: dk ,d c,Mij cuk,A

4-5 fM t kbu d fy, çj.kk

l Hkh fM t kbu: fd l h l kp ;k çj.kk ;k dN l krk: ij vk/kkfjr gkrh g½ tk fM t kbuj dk ,d u;k fM t kbu cuk: d fy, çfjr djr: gA ;g ;k rk çk—frd l l k/ku½ ekuo&fufeir oLr[vk] vFkok



oL= fM tkbu d rRo

gekj; vki kl d okrojk.k] mi;kx dh xbi l kexh vkj rduhd l] vFkok nk ;k nk l vf/kd l l k/kuk d l ;ktu l gk l drh gA mR—"V oL= fM tkbu ,d fM tkbu çfØ;k dk vu l j.k dj mi;ä dxth dke d ek;/e l çklr dh tkrh gA l keU; : i l ,d fM tkbu l f{klr fooj.k ;k xkgdk dh vko'; drk dk le>u d }kjk 'k: gkrh g vkj mld ckn fM tkbuj ,d çj.kknk;d fo"k; ;k lkr ij fopkj djrk g] vkj bld i'pkr dxxt ij ¼;k d l ;Vj ij mi;ä l ,Vo; j dk mi;kx dj ½ Mkbx cuku] jpuk vkj çkjfhkd fM tkbu fopkj i j vu l /kku djrk g çj.kk vkj ;g lc fM tkbu d l f{klr fooj.k ij vk/kkfjr gA



u, fM tkbu fopkj i cuku vkj vir e: mUg; fof'k"V diMk mRikn dh vko'; drk d vu l kj ,d vfre ;ktuk vkj yivmV nri le; rRok vkj fM tkbu d fl)krk dk /;ku ioid ykx fd;k tkrk gA vc ge l {k i e] vnHkr u, vkj jkekp d oL= fM tkbu d çj.kk dk vke lkrk dk n[kxA

- ◆ i—fr
- ◆ ekuo fufeir oLr]
- ◆ i—fr dk l ;ktu vkj ekuo&fufeir oLr],
- ◆ vU; fM tkbuj k }kjk fM tkbu

4-5-1 ç—fr

ç—fr vkj çk—frd ifjo'k ge'kk jpukRed i'kojk vkj diMk fM tkbuj k dk çfjr djrk gA lcl igy ,d fM tkbuj diM i j ç—fr dk okLro e nckjk fufeir djrk g] vkj nilj] og fidvi dj l dr vk[kk dk jkp d vkj vkd"kd fn[kkbi nu oky rRok dk y l dr g] vkj diM d VdM i j fM tkbu dju d fy, mUg; ,d u;k : i n l drk@l drh gA mnkgj.k d fy,) iÜk] Qy] yrk,] ik/k] iM] jr] ikuh dh ygj] tkuojk vkj tkuoj dh [kky vkfNA

n[kk tkrk g fd ;g ç—fr d çjd rRok dk mi;kx vf/kd ekfyd fM tkbu vkj çj.kk d fd l h Hkh vU; : i dk cuku dk urRo djrk gA



oL= fM t kbu d rRo



çk—frd oLr|,|

4-5-2 ekuo fufeir oLr|

,d fo'k" k mî'; dk ijk dju d fy, vkneh }kjk cukbi xbi oLr|vk; k Ikexh dk ekuo fufeir oLr| dgk tkrk gA bu oLr|vk dk vke rkj ij mfpr ;ktuk vkj x.kuk d }kjk T;kfetr l fy, x, vdkj vkj çdkj dk mi;kx dj cuk;k tkrk gA vlyh nfu;k vkj vkHkk l okrkoy.k e gj txg ekuo fufeir oLr|, gA mnkgj.k d fy,) ,d flykbi dh l b] fy[ku dh dye] nkr c'k] pEep] d l h] Qku] l kbfdy] dkj] Hkou] iy vkfnA ,d ekuo fufeir oLr| l çj.kk yr l e; ,d fMtkbuj dk l ko/kku jguk pkfg, fd d iM d fy, cukbi xbi ubi fMtkbu fd l h vkj d }kjk cukbi xbi oLr| dh ,d çfr—fr ;k udy u yxA



ekuo&fufeir oLr|

4-5-3 l;ktu

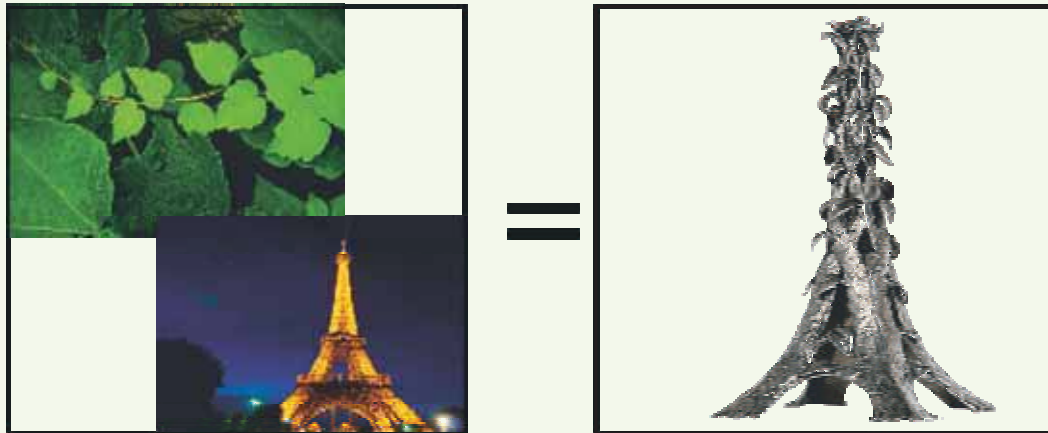
dN fMtkbuj] ,d ubi fnypLi fMtkbu ;k fMtkbu iVui cukui d fy, ç—fr d rRok vkj ekuo fufeir oLr|vk dk l;kftr djri gj bl rjg d l;ktu e[; : i l] fMtkbu d l f{klr fooj.k



oL= fM tkbu d rRo

dh vko'; drk vkj fM tkbu dh fu;fer çfØ;k vkj fM tkbu l mRiUu ,dj l rk rkMu; d fy, fd, tkr; gA

l;ktu ,d y;c) euHkkou fM tkbu d fy, fofHkUu rRok vkj vu;ikrk dk l kFk ykrk gA



l;ktu

4-5-4 vU; fM tkbujk; }kj fM tkbu

,d fM tkbuj vDlj vU; jpukRed i;'kojk; d dkek; l çfjr gkrk g] og dkb; ofj"B ;k ,d ekLVj fM tkbuj] egku dydkj vkj vkfd;VDV] ;k vKkr jpukdkjk; d ,frgkfld ikj;fjd f'kyi e l ,d gk l drk gA

db; ckj fpf=r diM; %ViLVht% vkj okLr; iVui rFkk uDdkf'k; d i;j;jkxr 'kkL=h; fM tkbu d rRok; dk lnfHkr vkj ç;kx dj diM; dk cuk;k tkrk gA bl çdkj dh çj.kk d; ektink : i dk mi;kx dj u, fM tkbu cuk; d; nkjku fM tkbuj dk lko/kkuh cjruh pkfg, fd ;g fd l h vkj dh jpuk dh d;oy ,d çfr cu dj u jg tk,A fd l h vkj dh fM tkbu ;k dyk—fr dk mi;kx djuk Hkh iu#Riknu ;k çfrfyfi cukuk dgk tkrk g] ft le; d;N Hkh u;k ugh; gkrk blfy, ,d vPNk fM tkbu d; : i e; bl dh ljkuk ugh; dh tk,xhA ,l; volj Hkh gkr; g] tc ,d fM tkbu d; lf{klr fooj.k dk fo'k" : i l; d;N ektink mR—"V dyk—fr;k; %ekLVj ih l % dh çfr—fr cuk; vkj iu#Riknu dh vko'; drk gkrh g] yfdu ,lk djuk ey dk;l dk lgh ek;u e; vufnr dju; d fy, ,d d;'ky ç;kx ek= gkrk gA u, fM tkbu d; fy, çj.kk d; : i e; nljk; d; l'tu dk mi;kx djr; le; ufrd vkpj.k dk ikyu fd;k tkuk pkfg,A



oL= fM t kbu d rRo



fMftVy fçV fMtkbu ¼pky:l bokl }kj½ ç—fr çfjr ¼,yh dfVl }kj½

I kjk'k

;g v/;k; oL= fMtkbu e fMtkbu d rRok d 0;kogkfjd vuç;kx d ckj e crkrk gA : ikdu ¼ekfVQ½ vkj : i ¼Qke½ fd lh Hkh diMk fMtkbu dh cfu;knh bdkb;k ,d gA : ikdu ,d e[; rRo g] fd lh fMtkbuj }kj fodflr fMtkbu fopkj e u;kiu yku d fy, bldk vfHkuo gkuk vko'; d gA [kM 4-1 e] : ikdu vkj : ik d fodkl dh çfØ;k d fy, fofHkuU jpuRed rjhd e ij ppk dh xbi gA iVu vkj cfu;knh nkgjko fd lh Hkh diMk fMtkbu dk çkFked vkj vko'; d fgLlk g] D;kfd oL= m|kx e vf/kdk'k fMtkbu nkgjko ¼cu: ¼oou½ d'khndkj] cu: ¼fuV½ vkj Ni oL=½ij vk/kkfjr gkrh gA ;g mi bdkb oL= fMtkbu e mi;kx fd; tku oky nkgjkok vkj mud çdkj d ckj e ,d cfu;knh le> nrh gA fofHkuU nkgjkok d vykok oL= fMtkbuj d [kM 4-3 d rgr mi bdkb d virxir le>k, x, ykdfç; fMtkbu yvkmV vkj fMtkbu rRok d lyleV d ckj e irk gkuk pkfg,A tllk fd [kM 4-4 e crk;k x;k g] jx fd lh Hkh fMtkbu e ,d egRoil.k Hkfedk fuHkr g vkj oL= mRiknk e vkd'k.k vkj lUnjrk dk c<kr; gA vxj jxk dk lgh l;ktu e çLrr fd;k tk; rk ,d diMk fMtkbu vR;r ilnhnk cu tkrk g] fofHkuU jx fodYik e miyC/k ,d fMtkbu fofHkuU dkjd çnku djrk g vkj vyx&vyx iln vkj oj;rkv d yxk }kj iln fd, tku dh lHkkoukvk dk c<krk gA fMtkbu dh çj.kk fofHkuU lkrk l feyrh g] tllk fd [kM 4-5 e foLrkj l crk;k x;k gA bl v/;k; dk mÍ'; Nk=k dk ,d fMtkbu dh çfØ;k d çkjfhkd pj.kk dk lHkkyu e l{ke djuk gA f'k{k.k i)fr d{kk e çfØ;k vk/kkfjr dk;l d ek/;e l fl)kr] —'; 0;k[;k vkj 0;kogkfjd f'k{k dk ,d vPNk feJ.k gA



oL= fm t kbu d rRo

vH;k l

- 1- vfHk0;fä ckMl@pkVl r;l;kj dju: d fy, ,3 vdkj dk ,d ekmV&ckMl ;k dkMl&iij y: vkj ç—fr l: yh xbl 12 l: 16 çk—frd oLrvk dk ml ij yxk,A mnkgj.k d fy,) l:[kh ifÜk;k] iMk dh VVh Nky] ,d ik/k l:[k ru] dk iRFkj NkVk l k VdMk] didM] [kky] vkfnA
 - 2- vfHk0;fä ckMl@pkVl r;l;kj dju: d fy, ,3 vdkj dk ,d ekmV&ckMl ;k dkMl&iij y: vkj viui ?kj e] n[rj ;k ?kj d: vklikl ifjo'k l: yh xbl 12 l: 16 çk—frd oLrvk dk ml ij yxk,A mnkgj.k d fy,) ijkuk VFk c:'k] l:[Vh fiu] dye] VM Qku ;k pk; d: d: dk fgLIk] fctyh d: fLop] /kkr d: ip] vkfnA
 - 3- 6 l: 8 çk—frd vkj vklikl l: yh xbl 6 l: 8 ekuo fufeir oLr,l: yxk dj fo" k; ;k dgkuh ij vk/kkfjr ,d vfHk0;fä ckMl@pkVl cukui d fy, ,3 vdkj dk ,d ekmV&ckMl ;k dkMl&iij y:A ckMl dk viui fo" k; d: vu: i ,d mi;ä 'kh"kd nA
 - 4- ,d ljpuk cukui d fy, ;k dkMl dkxt j[kui vkj ,3 vdkj dk ,d ekmV&ckMl ;k dkMl&iij ij fuEu e: l: 6 l: 10 —';k dk yxku d: }kj çR;d dh ,d ljpuk cuk, d½ ,d ikjifjd Hkkjrh; gLrf'kYi
- [k½ nk ;k rhu çl) Hkkjrh; fp=dkjka ;k okLr|dkjka d: dk;l ¼fVli.kh% vki mijkä nkuka d: fy, nkuka d: if=dkvka@ i= vkfn l: —';@rLohj: çklr dj ldr g½

oL= fM t kbu d rRo

bdkb 4

fofHkUu çdkj d oL=k
d fy, fM t kbu



oL= fM t kbu d rRo

v/;k; 5

cu oL=k d fy, fM t kbu

5- cu oL=k d fy, fM t kbu

cu g, diM lcl 0;kid :i l mi;kx fd, tku oky diM gA /;ku l ,d diM e /kkxk dh ljpuk vkj vUrxiFku dh fof/k dk n[k dj dkb cu ¼oou½ ;k cu ¼fuVM½ diM e virj dj ldrk gA

bl v/;k; e ge miyC/k cu g, diM d çdkjk d ckj e tkuXA

cu oL=

90 fMxh d dk.k ij ,d nlij l vUrxiFkra /kkxk d nk lV gkr gi] ,d rkuk dgyku okyk Å/ko/kj v[k ij vkj nlij {kfrt v[k ij cu d :i e yxk gkrk gA rkuk ,d diM dh yckb e vkj ckuk pkMkb d lFk pyrk gA rku vkj cu d /kkxk d vUrxiFku e fofHkUu çdkj dk giQj fofHkUu iVu vkj fMtkbu cuk,xk] ; ueu mi;kx fd, tku oky r= vkj rjhd ij Hkh fuHkj gkxA cukb d fy, mi;kx fd; tku oky rjhd d vk/kkj ij cu g, diM dk fofHkUu çdkj e oxh—r fd;k tk ldrk gA

vc ge fuEufyf[kr d :i e cu g, diM d fofHkUu çdkj dk le>u dh dkf'k'k djr gA

cu oL= d idkj

1- gFkdj?kk oL=% cu g, diM vke rkj ij cukb dh fMtkbu ;k ljpukvk d vu[kj oxh—r fd, tkr gi] tcf d lknh cukb lcl vke vkj bu lHkh e lcl l jy gA gFkdj?kk ij cu tku oky diM dk gFkdj?kk cukb d diM dgk tkrk gA gFkdj?kk diM cuk d çfØ;k vke rkj ij /kheh gkrh gi] gkykfd Hkkjr e ikjifjd lFkM;k d :i e l[nj vkj tfVy dke Hkh gFkdj?k ij fd;k tkrk gA



giMye diM



oL= fM t kbu d rRo

- 2- M,ch diM% M,ch ,d tfVy r= g] bl r= dk mi;kx dj [kcljr T;kferh; vkj lly tfod fMtkbu; cukbi tk ldrh gA M,ch gkFk l lpkfyr ;k gFkdj?k vFkok fctyh l pyu oky fo|rh;&dj?k ij cuk;k tk ldrk gA



M,ch diM

- 3- tdkM diM% ,d tdkM dj?kk ij /kkxk di tfVy vrx:Fku }kjk egHu vkj tfVy fMtkbu cukbi tk ldrh gA tdkM ey : i l ,d vR;fkd tfVy r= dk uke gl vkj ;g cukbi di nkjku /kkx: dk ,d di fy, ,d di vk/kkj ij fu;f=r dju e l{ke gA bl r= di lkFk yx dj?kk dk tdkM dj?kk dgk tkrk gA tdkM diM fxykQ %lkQk doj vkfn% 'k,y vkj lkFm;k dh iYy vkfn dh fMtkbu di fy, cgr ykdfç; gA



%cukbi vkj dk fp= & http://www.made-from-india.com/showroom/krishna-technofab/products/Jacquard-Fabrics_85747.html)

- 4- ikby diM% mu lHkh diMk dk ftudh lrg l /kkx: mHkj gkr g] ikby diMk dgk tkrk g] mnkgj.k di fy, & rkfy;] e[key vkfnA ikby diMk ei Qn: cuku di fy, /kkxk dk ,d vfrfjÄ lV gkrk g] vkj ;g dVv ;k fcuk dVv gvk gk ldrk gA ikbYl diM ei ekVkb vkj otu tkM ldrk g vkj e[key tll dV ikby diMk dk mi;kx 'kkunkj mRiknk di fy, fd;k tkrk gA



oL= fm t kbu d rRo



Vjh rkfy;k

l dh.ki pkMkb: d: diM% fjcui vkj Vi t:l de pkMkb: d: diM vyx dj?k ij cui tkr: gA bu diMk@Vi@fjcui dk mi;kx ltkoV d: mÍ'; l fd;k tkrk gA



l dh.ki pkMkb: d: diM

l kjk'k

;g v/;k; ekV: rkj ij cui gi, diMk: vkj cukbi dh rduhd d: vu|lkj miyC/k cui gi, diMk: d: çdkjka dk ifjp; nrk gA cukbi oL= m|kx dh cfu;knh rduhdka e: l ,d gi D;kfd Ni: gi, diMk: dk cukui e: Hkh cui %oou% ;k cui %fuVM% diMk: t:l ,d vk/kkj dh t:jr gkrh gA bl v/;k; e: gFkdj?k l cui gi, diM] M,ch vkj t:dkM:] ikby vkj l dh.ki pkMkb: diMk: dh egRoil.ki fo'k"krkvka dh ppk: gA gkykfd v/;k; fl)kr vk/kkfjr g] yfdu ykdfç; cukbi oL=k: d: fofHkUu çdkjka d: l c/k e: Nk=k: dh tkudkj dh c<ku: d: Øe e: ble: -'; lnhk: vkj okLrfod diM: d: ueuk: d: lnhk: dk 'kkfey fd;k x;k gA



oL= fM t kbu d rRo

vH;k l

1- fuEufyf[kr ij mnkgj.k d l kFk l f{klr fvli.kh ¼60 &80 ‘kCnk e½ fy [k½

d½ ikby diM½

[k½ gFkdj?kk d diM½

x½ M,ch diM½

?k½ l dh.k p kMkb d diM½

¾ t d kM diM½

2- fuEufyf[kr dk feyk,½

M,ch

rkfy ,

ikby

t d kM½

fjcu

l jy T;kferh; iVu

t fVy fM t kbu

l dh.k diM½



oL= fm t kbu d rRo

v/;k; 6

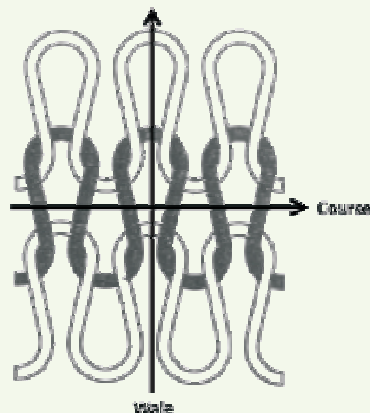
cukb $\frac{1}{4}$ fufVx $\frac{1}{2}$ ifjp;

6- cukb $\frac{1}{4}$ fufVx $\frac{1}{2}$ ifjp;

cukb Qnk d vUrxifku }kjk l diM d fuek.k dh ,d cgr ijkuk çFkk gA cuu gi, diM d foijhr] cukb $\frac{1}{4}$ fufVx $\frac{1}{2}$ d diM l b dh enn l Qnk dk my>k dj $\frac{1}{4}$ /kkxk d nk lV d Qnk dk lh/kh fn'kk e vUrxifFkr dj $\frac{1}{2}$ mRikfnr fd, tkr gA bl çø;k d nkjku ijkuk Qn d ek/;e l u, ,d Qnk cuk;k tkrk gA diM oYI dgyku oky ycor fn'kk d Qnk vkj øe $\frac{1}{4}$ dk l $\frac{1}{2}$ dg tku oky vuni?;i fn'kk d Qnk dk feykdi curi gA

Qnk Nkj d mifLFkfr] cuu gi, diM dk 'kjhj d vkdkj fQV gku d fy, vR;f/kd Qiyu ;kX;] vkjenk;d vkj ifjoriu'khy cukrh gA fuV viuu mi ;kx@vuç;kxk d ekey e cgr yphyk gkrk gA xfe;k] lfn;k e iguu vkj [kyk d fy, budk vR;f/kd mi ;kx fd;k tkrk gA mPp tkyhknj ljpuk bl cuu gi, diM dk ikjxE; vkj vf/kd lkl yu ;kX; cukrh g] ft l l xfe;k e bl iguuk vkjenk;d gkrk gA lfn;k d fy, cuu gi, diM d Fkey buliy'ku dk c<ku d fy, ekVk cuk;k tkrk gi vkj bld fNæ gok dk vVdk yri gi tk xehi cuk, j[kri gi vkj 'kjhj xei jgrk gA mPp f[kpko {kerk viuu 'kjhj dk vk lkuh l ekMu e ,d f[kyMh dh enn d jrh gA gkykfd] v/kjk ykp ?kVu vkj dkuh ij ^cfxix** mRiUu djrk gA

cuk gvk mRikn dkQh ykdfç; gi vkj Q'ku vkj ifj/kku cukb dk lcl ijkuk çdkj ^vjch cukb** d : i e tkuk tkrk Fkk] tk mUkj vYhd e vkjHk fd;k x;k Fkk vkj vjck }kjk ;jki e yk;k x;kA fofy;e yh u viuu Hkkb: tEl yh d lFk 1589 e] bXYiM e igyh cukb e'khu dk fuek.k fd;kA





oL= fM t kbu d rRo

I kjk'k

;g v/;k; cu: gl, ¼fuVM½ diM: dk ,d cfu;knh ifjp; çnku djr k gA vkt dh nfu;k e: fuV diM: Hkh cu: gl, diM: ftru: gh ykdfç; g: vkj cukb: m|kx fnu c fnu c< jgk gA oL= fMtkbu i:'kojk: dk viuh Kku d nk;j: dk c<ku: d Øe e: fuV dk vPNh rjg l: le>u: dh t:jr gA gkykfd] v/;k; fl)kr vk/kkfjr g] yfdu cu: gl, diM: d ckj: e: Nk=k: dh le> dk fodflr dju: Øe e: –'; lnhk: Hkh 'kkfey fd, x, gA

vH;k l

1- fjä LFkku dk Hkj: %

d½ cukb: Qnk: dh ----- }kj k fufe:r gA

[k½ cu: gl, diM: e: viuh vuBh ljpuk d: dkj.k ----- f[kpko dh {kerk vkj vkjke d: x: kA

x½ ----- u: o"ki 1589 e: bXyM e: cukb: dh igyh e'khu dk vkfo"dkj fd; kA

?k½ cu: gl, diM: e:] vun/;: fn'kk d: Qnk: dk ----- d: : i e: tkuk tkrk g] vkj vuçLFk fn'kk d: Qnk: dk ----- d: : i e: tkuk tkrk gA

Lkd:r %

d½ bVjef'kx ¼vki l e: tkyh cukuk½

[k½ mPp vf/kdkj

x½ fofy;e yh vkj t:El yh

?k½ oYI] ikBîØe



oL= fM t kbu d rRo

v/;k; 7

Ni g, oL=k d fy, fM t kbu

7- Ni g, oL=k d fy, fM t kbu

t c Hkh ge ctkj tkr g vki ,dy ;k cg jix e i"i] T;kferh;] fefJr ueuk vki dbi vU; fMtkbu iVu d l kFk l n j fMtkbu oky diM n[kr g rk diM dk le>u di fy, mud d jhc tdkj mUg N r gA bl diM dk l keu vki ihN nkuk vki l n[k vki vxj vki n[kr g fd diM dk ,d i{k ij vf/kd çe[k vki fuf'pr vkdkj cuk d fy, jix d ;kx }kjk cuk;k x;k g rk fMtkbu d Nik gvk diMk gku dh lcl vf/kd l Hkkouk gA

bl v/;k; e ge Ni g, diM] fofHkUu fMtkbuk vki lcf/kr 'kCnkoyh d fofHkUu çdkj d ckj e l h[kxA

Ni g, oL=k dk le>u di fy, ge ;g tkuu dh t:jr g fd fdru çdkj d eæ.k rduhd miyC/k g] vki rnu[kj Ni g, oL= m[kx dh fMtkbu dk le>k tk ldrk gA Ni g, oL=k d çdkj dk rhu rjhd l le>k tk ldrk gA

- 1- Nikbl dh rduhd vki rjhd
- 2- Nikbl e mi;kx fd, tku oky jlk;u vki çk[kxfdk
- 3- fofHkUu fMtkbu fo'k"krk,

7-1 Nikbl dh fof/k

oL=k dh Nikbl dh pkj ykdfç; fof/k; k g] o g

- i. gkFk d Cy,d l Ni oL=
- ii. Løhu dh Nikbl d oL= $\frac{1}{2}$ gkFk vki e'khu }kjk
- iii. fey d Ni oL= $\frac{1}{4}$ mPp xfr ;ä Lor% Nikbl e'khuk dk mi;kx
- iv. fMftVy vki virj.k Nikbl d oL=A
- i. gkFk d Cy,d l Ni oL=% Nikbl dh ;g fof/k lcl çkphu g vki vHkh Hkh oL=k dk ,d cgr gh ykdfç; : i gA Hkkjr dk viui ikjifjd gkFk d Cy,d l Ni oL= m[kx di fy, t kuk tkrk gA fof/k e diM dk ,d xinkj et ij Qyk;k tkrk g] igy jix dk fMtkbu mRdh.k ydMh d Cy,d ij yxk;k tkrk g vki mld ckn bl ydMh d Cy,d dk



oL= fM t kbu d rRo

diM ij Nkik tkrk g] ft l d i f j . k k e L o : i y d M h d i C y , d i j y x i j x d i e k / ; e l i f M t k b u d i M i j v f d r g k t k r h g A y d M h d i ç R ; d C y , d d k b l r j g l i c u k ; k t k r k g f d f M t k b u v x y e f c Y d i y f Q V c B r h g A b l o L = d h i g p k u d j u d i f y , j v k i d k f M t k b u d i f o o j . k e n i [k u k p k f g , j j i [k k v k d h e k V k b i v k j f e y k u e e k e y h n k " k g k l d r i g j ; g g k F k l i N i k b i d h o t g l i g j D ; k f d m U g ; N k i r i l e ; g k F k d i n c k o e v i r j g k l d r k g A ; g C y , d f c f V i x r d u h d d i p f j = d k i f j H k k f " k r d j r k g i v k j l i n j d i M i c u k r k g A



gkFk d i C y , d l i N i k b i

- ii. Løhu l i N i o L = % N i k b i d h ; g f Ø ; k x i n k j e t i j d h t k r h g j c k j h d f N f æ r d i M i d h t k y h ; k L ø h u d k p k d k j ; k v k ; r k d k j / k k r i ¼ ; k y d M h ½ d i Ý e i j Q y k d j d l f n ; k t k r k g A C y , d l i N i k b i d h r i y u k e j b l f o f / k l i c M i n g j k o v k d k j d i l k F k f M t k b u ç l r d h t k l d r h g i v k j , d d i M i d h N i k b i m R i k n u e i r i t h v k r h g A L ø h u d h N i k b i i j L i j c g r j e y [k k r h f M t k b u n i r h g j v k j N k V i m R i k n u k d i f y , y k d f ç ; g A
- iii. f e y d i N i o L = % f e y c M h e k = k e N i d i M k d k m R i k n u d j r h g j b l N i k b i e f l y M j d h i f j f / k i j y x h c k j h d t k y h d i l k F k c y u k d k j M e d k m i ; k x f d ; k t k r k g j N i k b i d h b l f o f / k d k j k V j h e æ . k f o f / k d g k t k r k g A b l i) f r d i e k / ; e l i m R i k f n r o L = j N i k b i d i c k n d b i ç d k j d i i f j " d j . k y k x i d j u d h l H k k o u k d i l k F k j v k e r k j i j v P N h x i . k o ù k k d i g k r i g A , d d k j [k k u i e i v R ; f / k d f u ; f = r ; f = h — r i ; k o j . k d i d k j . k N i k b i l g h v k j y c l e ; r d p y u i o k y h g k r h g A o . k d j x k d k , d g Y d h t e h u ; k l Q n d i M i j l h / k N k i k t k r k g A n i j k d h r i y u k e i ; g l c l i l L r h v k j l j y e æ . k r d u h d k e i l i , d g A
- iv. f M f t V y v k j v i r j . k l i N i o L = % m i j k ä l H k h o L = k d k j j x d h , d f u f ' p r



oL= fM t kbu d rRo

l[;k d[ek;/e l[çklr fd;k tkrk g] tcfD LFkkukrj.k ;k fMftVy eæ.k rduhd
e[yxHkx fd l h Hkh fMtkbu dk jixk d[fd l h Hkh l[;k d[lkFk efær fd;k tk l drk
gA tc Hkh vki ,d okLrfod rLohj dh rjg yxu oky ,d QkVk fçV dk n[k] rk
bl[,d fMftVy efær diMk le>A virj.k eæ.k d[fy, igy fMtkbu fçV dk ,d
fo'k" dkxt ij cuk;k tkrk g] vkj fQj ml fMtkbu dk okfNr diM[ij LFkkukrfj
fd;k tkrk gA

Vh&'kV] vudfyr ?kjiy diM[vkj cM[cukk d[fy, vf/kdrj virj.k ;k fMftVy
eæ.k rduhd dk mi;kx fd;k tkrk gA



<http://www.designersguild.com/fabric-and-wallpaper-showroom/view-all-collections/sofienbergfabrics/mariedal/mariedal---peony/#.UP9vtfLCdsY>

7-2 Nikb[e[mi;kx fd, tkui oky j lk;u ,o[çk] kfxfd;k

- o.kid Nikb% o.kid jixk dk ,d gYdh lrg ;k lQn diM[ij lh/k efær fd;k tkrk
gA bl Nikb[e[o.kid jixk dk lh/k diM[dh lrg ij ykx fd;k tkrk g] o.kid jix
jixk d[ek;/e l[,d okfNr iVui dk fuek.k dju d[fy, diM[dh lrg ij jix dh
,d ijr cukr gA fMLpkt[vkj çfrfØ;k'khy dh riyuk e[;g lcl[lLrh vkj l jy
Nikb[rduhd gA
- fuogu ¼fMLpkt ¾ bl rduhd e[diM[dk igy xgj jixk l jixk tkrk g] mldi
ckn diM[d[dN fuf'pr {k=k dh lrg l xgj jix dk gVku d[fy, j lk;u dk ,d
mi;kx fd;k tkrk g] vkj mldi ckn okfNr fMtkbu@iVui e[gYd jixk dh Nikb[
dh tkrh gA fuogu] o.kid l T;knk egxh g] okfNr ifj"—r fMtkbu cuk d[fy,



oL= fM tkbu d rRo

nkuk rduhd_k ¼jixkb_i vkj Nikb_½ dk mi; kx fd; k tkrk gA tc fd l h fM tkbu d_i , d cM_i {k= e_i , d xgj_i jix dh i" BHkfe gkrh g_j rk vU; {k=k_i e_i NkV_i Hkxk_i dh gYd_i jix l_i Nikb_i dh tkrh g_j bl rduhd dk fo'k" k : i l_i ifj/kku d_i fy, iln fd; k tkrk gA

- iii. çfrfØ; k'khy ¼fj, fDVo_½ bl çfØ; k e_i , d fo'k" k jix cuk_i d_i fy, jlk; u vkj jix , d nllj_i d_i lkFk çfrfØ; k djr_i gA



o.kd efær diM_i



fuogu efær diM_i

7-3 fçV fM tkbu çk_i | kfxdh

fçV fM tkbu dh fofHkUu fo'k"krk, vkj 'kCnkoyh

fçV fM tkbu: fofHkUu çdkj dh gkrh g_i vkj mul_i lcf/kr fo'kky 'kCnkofy; k_i gA ge dN egRo_i. k_i vkj ykdfç; fM tkbu d_i ck_i e_i ppk_i djx_i A

d_½ Qynkj Nikb_½ l_{ij} Qy bu fçV fM tkbu dh e_i; fo'k"krk gA Qynkj fçV dkykrhr g_i vkj gj n_i k vkj d{kk e_i budh ljkuk dh tkrh gA

[k_½ T; kferh; fçV·l_½ T; kferh; rRo okyh Nikb_i dk T; kferh; fçV dgk tkrk g_j mnkgj. k d_i l_{ij} M, V·l_i dk ^ikYdk* M, V·l_i dgk tkrk g_j vkj l_{ij} j_i [kkv_k dk */kkfj; k* dgk tkrk gA tc j_i [kk, 90 fMxh d_i dk. k ij , d nllj_i dk dkVrh g_i rc , l_i fçV dk ^p_i d* dgk tkrk gA

x_½ l_{kj} fçV·l_½ % , d Qy ; k fd l h Hkh vU; rRo dk çrhdkRed rjhd_i l_i çfrfuf/kRo dju_i dk_j tk -'; : i l_i lkeK_i; d_i lkFk lc) u g_{kj} l_{kj} ¼, CLV_i DV_½ dgk tkrk gA l_{kj} fçV dk vk/kfud fçV d_i uke l_i Hkh tkuk tkrk gA

?k_½ l_{oknh} fçV·l_½ % fM tkbu dk dkbi Hkh rRo tk dN çR; {k l_{ini} k nirk ; k l_{ipkfj} r djrk g_i m l_i l_{oknh} fçV dgr_i gA mnkgj. k d_i fy, [ky xfrfof/k; k_i i'k_i pgj_i ; k mM_i r_i



oL= fm tkbu d rRo

gokbi t gkt vkfnA vkt l oknh fçV cPpk e dkQh ykdfç; Ji.kh g] mnkgj.k d fy, ykdfç; dkViu pfj=A

?k½ tkrh; fçV l % fd l h fo'k" k {k= ;k l l—fr ;k ij i j k v k l l l cf/kr fçV fm tkbu dk tkrh; fçV dgk tkrk gA mnkgj.k d fy, Hkkjrh; iLy fçV tkrh; fçV g] ekuk tkrk g fd budk ey ,f'k; kb Qk j l h {k= e gk l drk gA

l k j k 'k

;g v/;k; efær oL=k l l cf/kr fm tkbu 'kCnkofy; dk o.ku djrk gA eæ.k rduhd vkj eæ.k d rjhd k d vu l k j fofHkUu çdkj d oL= miyC/k gA Ni g, oL=k d fm tkbu igy dk le>u d fy, Nikb l l cf/kr fof/k ;k rduhd dk le>uk vko'; d g] t l l fd LØhu Nikb] Cy,d Nikb] jkVjh vkj fmftVy Nikb vkfnA ;g le> vf/kd {kerk vkj fm tkbu dh cgrj le> d fodk l dk urRo djrh gA gkykfd v/;k; fl)kr vk/kkfjr g] yfdu Ni g, oL= m l k x d ckj e Kku dk c<ku d Øe e —'; l nHk] okLrfod ueuk l nHk vkj d N 0; kogkfjd dk; l 'kkfey fd; k x; k gA

vH; k l

1- fuEufyf[kr ij l f{klr fvli.kh ¼60&80 'kCnk e ½ fy [k½

d ½ fuefä ¼fMLp k t ½ vkj o.kd ¼fixeV ½ Nikb d chp dk virj

[k½ Cy,d l Ni Hkkjrh; diM

x½ fmftVy Nikb

?k½ jkVjh Nikb d diM

¾ LØhu l Ni diM

2- 'kCnk d ijLij lgh l ;k tu ij lgh dk fpà yxk, %

l Qn i" BHkfe	o.kd ¼fixeV ½ Nikb	
fuefä ¼fMLp k t ½ Nikb	NkV Qy	
LFkkuk rj.k Nikb	Vh 'kV: l	
QkV k x kf Qd Nikb	o.kd fçV	
çk—frd fn[ku oky Qy	fmftVy Nikb	
j: [kkv k d t Mu e nk" k	gkFk l Cy,d dh Nikb	



oL= fM t kbu d rRo

3- c;kuk_i dk lgh ;k xyr fpfàr dj_h
d_½ dUoI'ku fçV·l e_i fd l h Hkh Hkk"kk e_i ckr dju_i dh 'kfä g'A
[k_½ dkViu ik=k_i Hkh T;kferh; Nikb_i Hkh ekuk tk l drk g'A
x_½ Qy oky_i Nikb_i e_i fd l h Hkh {k= d_i fy, fof'k"V g'A
?k_½ ,d fo'k"k {k= d_i lcf/kr lL—fr dk le>u_i d_i }kjk tkrh; fçV le>k tk l drk g'A
³½ I kj ¼,CLV'DV½ Nikb_i ijkuh iM_i pdh g'A



oL= fM t kbu d rRo

v/;k; 8

oL=k dh çfrjk/kd jxkbi }kjk fM t kbu

8- oL=k dh çfrjk/kd jxkbi }kjk fM t kbu

çfrjk/k oL= fM t kbu dh ,d ikjifjd fof/k gA bl rduhd ei diM; k /kkx; d; dN {k=k; dk çfrjkf/kr fd;k tkrk g] vkj ckdh dk jxk tkrk gA Vkb; vkj Mkb; rduhd diM; ij jkpd ifj.kke ink djrk gA ck/ku; vkj jx l;ktu dh fof/k bl rduhd ei ,d egRoil.ki Hkfedk fuHkkr; gA

bl v/;k; ei ge oL= fM t kbu d {k= ei ç; kx dh tkui okyh fofHkUu çdkj dh çfrjk/kd rduhd; d; ckj; ei lh[kxA

db; lH; rkvk; ei çfrjk/kd rduhd lcl; ijkuh vkj çpfyr gA

ueu; cuku; d; fy, igy; diM; ;k /kkx; dk ,d okfNr Øe ei çfrjkf/kr fd;k tkrk g] bl d; ckn diM; dk jxk tkrk g] ftld; ifj.kkeLo:i çfrjkf/kr {k=k; ei l;nj ueu; cu tkr; gA nk l; vf/kd jxk; ei ,d çfrjkf/kr ueuk çklr dju; d; fy, ge'kk gYd; l; xgj; jx d; Øe ei jxkbi dh tkrh gA

çfrjkf/kr rduhd dk vke rkj ij çfrjk/k d; rjhd; d; vu;l kj fuEufyf[kr {k=k; ei oxh—r fd;k tk ldrk gA

1- /kkxk; dk çfrjk/k ¼rkuk vkj ckuk & bdr½

2- Vkb; ,M Mkb; & ¼ck/kuh½

3- eke l; çfrjk/k & ¼ckfVd½

4- rg dju; vkj flykbi d; ek/;e l; çfrjk/k & ¼f'ckkj h½

5- Dyfix rduhd d; ek/;e l; çfrjk/k & ¼tld l h½

6 /kkxk ¼bdr½ dk çfrjk/k rkuk ;k diMk dh bl rduhd ei rku; vkj cku; ;k nkuk; d; /kkxk; dk ,d cgr fu/kkfjr i)fr l; ck/kk tkrk gA bl d; ckn c/k; rku; ;k cku; dk bfPNr jx ei jxk tkrk gA /kkxk dh c/k; {k=k; ei jxkbi d; jx ço'k ugh; djr] blfy, ;g /kkxk; d; ey jx dk NkM; nrk gA dj?kk ij p<ku; vkj cuu; ij ;g : ikduka ;k ueuka dh ,d l'fe vkj vlxr : ijj[kk cukrk gA bl rduhd ei ,d diM; ij rit : ijj[kk d; l kFk ,d fM t kbu çklr djuk lHko ugh; gA bDdr rhu çdkj d; gkr; gA rkuk bdr] ckuk bdr vkj nkgjk bDdrA tc rku; vkj cku; nkuk; d; /kkx; ck/k dj jx; g], gkr; g] rk ml; nkgjk bdr



oL= fM t kbU d rRo

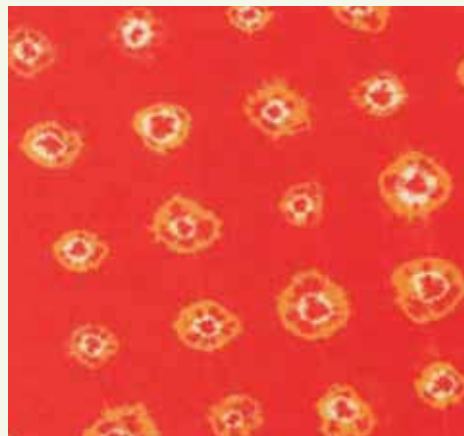
dgk tkrk gA Hkkjr e vk/k çn'k] mMh lk vkj x|tjkr jkT; bdr oL=k d fy, çl) gA mMh lk e: **iVkyk** ; k **IEHkyij** uked l k fM; k dh vuId fdLe: ikb tkrh gA **ikpeiYyh** l k Mh vk/k çn'k d ukyxkMk fty; d ,d NkV l xko dk ,d nkgjk bdr diMk g] vkj ;g xko d uke l gh ykdfç; gA d l jh bMkuf'k; kb bDdr dh ,d 'kyh g] ble: vR;f/kd l Vhdrk jgrh gA



c/k t&j xkb /kkxk

bdr & ck/k dj jx /kkx ;ä diMk

Vkb ,M Mkb: ¼ck/kuh½ bl rduhd dk ç; kx diM dh ctk; /kkxk ij fd; k tkrk gA /kkx dk mi; kx dj diM dk fuf'pr iVu e c/kk tkrk gA dHkh&dHkh vyx xky vkdkj iku d fy, c/k {k=k e NkV ekrh ; k [kk|kUuk dk mi; kx fd; k tkrk gA d l dj vkj Bhd l ck/ku d ckn diM dk jxkb d fy, y tk; k tkrk gA çfrjkr c/k {k=k e jx ço'k ugh d jrk jxkb d ckn diM dk /ki e l [kk; k tkrk gA ,d diM dh lrg ij l j iVu iku d fy, c/k g, çfrjkr /kkxk dk [kkyk tkrk gA Hkkjr e bl rduhd dk cM ieku ij ç; kx fd; k tkrk g] ft l ^ck/kuh* d uke l tkuk tkrk gA Hkkjr d x|tjkr vkj jktLFkku d {k=k e bl rduhd dk ç; kx fd; k tkrk gA diM ij c/k /kkx dk gV, fcuk mRiknk dk c/k tkrk g] rkfd ykx gkFk dh rduhd dh çkef.kdrk ij fo'okl dj l dA



ck/kuh



oL= fM tkbu d rRo

- 7- ckfVd% ckfVd eke }kjk çfrjk/k dh ,d rduhd gA diM i j fM tkbu : i dk çfrjk/k dju d fy, c'k ;k ydMh d Cy,d d ek/;e l eke yxk;k tkrk gA jxkbl eke çfrjkf/kr {k=k dk cpku d fy, BMi uiFk,y jxk dk mi;kx fd;k tkrk gA fM tkbu e fpdu ifj.kke d fy, e/kefD[k;k d eke dk vkj vf/kd njkj; cuku d fy, ijkfQu eke dk ç;kx fd;k tkrk gA jxkbl d ckn eke dk gVku d fy, diM dk ikuh e mcky tkrk gA bldi ckn ,d lñj ckfVd Lo: i iku d fy, diM dh jxkbl dh tkrh gA



ckfVd

- tkok e t gk eke dk mi;kx fd;k tkrk g] bl rduhd dk ckfVd dgk tkrk g] vkj tkiku e t gk ,d çfrjk/kd lkexh d : i e fil g, pkoy dk mi;kx fd;k tkrk g] bl ^lrlxdh* dgk tkrk gA
- 8- ekMu vkj flykbl d ek/;e l çfrjk/k ¼f'ckkjh½ f'ckkjh tkikuh oL=k dh ykdfç; rduhd e l ,d gA bl rduhd e vPNi iVu d çklr dju d fy, diM dk dl dj rg fd;k vkj flyk] ejkMk vkj nck;k tkrk gA fofHkUu rjhd d l ;ä vkj mi;kx dju l vDlj cgr vuk[k ifj.kke feyr gA bl rduhd e çfrjk/k d fy, mi;kx dh tku okyh rduhd diM dh fM tkbu d vfre ifj.kke dk çHkkfor djrh gA
- 9- ncku ¼DyEi½ dh rduhd ¼tDl h½ bl rduhd e e[; : i d fy, diM dk rg djuk vkj bldi ckn ,d uDdk'kñkj ydMh d fM tkbu vkdkj dk mi;kx 'kkfey gA ; ydMh d ; çfrjk/kd ge'kk nk leku VdM gkr g] D;kfd bUg diM d nkuk rjQ ij j[kk tkrk gA bldi ckn bu nkuk Cy,d dk feykdj rk ,d DyEi d l kFk tkMk tkrk gA çfrjk/k dh vU; rduhd dh rjg diM dh jxkbl dh tkrh g] vkj ckn e okfNr iVu iku d fy, DyEi dk fudkyk tkrk gA ^tDl h* phu d dN LFkkuk e çpfyr çfrjk/k dh ,d ijkuh rduhd gA



oL= fM t kbu d rRo



rg }kjk ifrjk/k

I kjk'k

diM_i d_i lrg ij l_{nj} iVu_i cuku_i d_i fy, dN {k=k_i dk çfrj_{kf}/kr dju_i vkj m_i d_i ckn bPNr jix e_i jixkb_i d_i fy, fofHkUu rjhd_k dk mi; kx fd; k tkrk gA ;g rduhd çkphu g_i vkj vHkh Hkh bldh ekx gA bl v/; k; e_i diM_i dk çfrj_{kf}/kr dju_i d_i fy, ç; kx dh tku_i okyh bDdr] diM_i dk ck/kuk vkj jixuk] DyifEix d_i rjhd_k] tkikuh f'kckjh] ckfVd vkfn rduhd_k dk fooj.k fn; k x; k gA bldk e_i [; m_i ' ; jixkb_i vkj oL= fMtkbu e_i ç; kx dh tku_i okyh çfrj_k/k dh fofHkUu rduhd_k dk le>kuk gA bl ikBîØe d_i fy, f'k{k.k i)fr e_i Kku dk c<ku_i d_i fy, 0; k [; ku] –'; vkj ueuk l_nHk_i 'kkfey g] ft l d_i i'pkr 0; kogkfjd dk; l dk j [kk x; k gA

vH; k l

- 1- fuEufyf[kr ij l f{klr fVli.kh ¼60&80 'kCnk_i e_i½ fy [k_iA
- d_i½ f'kckjh
- [k_i½ Hkkjrh; bdr
- x_i½ çfrj_{kf}/kr jixkb_i rduhd
- ?k_i½ ckfVd
- 3 ½ ck/kuh



oL= fM t kbU d rRo

2- 'kCnki d i jLi j lgh l i ; k t u i j lgh dk fu'kku yxk, iA

ck/kuh

jk t LFkku

bdr

bMkuf'k ; k

e/kefD [k ; ki dk eke

uje vkj de njkj i

f'ckkj h

bijku

rg ; ä diM i

ckfVd



oL= fM t kbu d rRo

v/;k; 9

Hkry vydj.k vkj vydj.k

9- diM ij lrg vydj.k

diM ij vydj.k bl vkd"kd cukrk gA diM dh lrgk dh lUnjrk c<ku d fy, gLrf'kYi] dVhj vkj y?k m|kxk e fofHkUu ykdfç; rduhd çpfyr gA

bl v/;k; e ge diM dh lrg d vydj.k d fy, mi; kx dh tku okyh fofHkUu rduhdk dk irk yxk, xA

diM e gjQj dju dh rduhd oL= vkj Q'ku e cgn ykdfç; g] vkj bl fd l h Hkh diMk mRikn d fy, eY; o/ku ekuk tkrk gA

oL=k dh lrg d vydj.k d dN ykdfç; rjhd g

- 1- d<kb
- 2- fi iyh $\frac{1}{4}$, flyd $\frac{1}{2}$
- 3- ip od
- 4- diM dk bdBBk djuk $\frac{1}{4}$ Qfcd xnfjx $\frac{1}{2}$
- 5- Lekfdix
- 6- diM dk ekMuk] lyhfVix vkj VDI
- 7- /kkx [khpui dh rduhd

- 1- d<kb $\frac{1}{4}$ d l hnkdkjh $\frac{1}{2}$ % l b vkj /kkxk] ekrh fjcu] /kkr d /kkx t l h vU; l kexh dk mi; kx dj , d diM ij dh xbi d<kb diM d vydj.k dh lcl ykdfç; rduhd gA d<kb nk çdkj l dh tkrh g& gkFk l vkj e'khu lA e'khu }kj dh tku okyh d<kb dh riyuk e gkFk dh d<kb dk çe[k ekuk tkrk gA gkFk dh d<kb e {k=k d vu l kj fofo/krk gkrh gA Hkkjr mR—"V d<kb d fy, tkuk tkrk g] t l mUkj çn'k $\frac{1}{4}$ y[kuÅ $\frac{1}{2}$ dh fpdudkj] cukj l dh t jnkth] x t jkr dh 'kh'k dh d<kb vkj if'pe cixky dh dkFk d<kbA vkt dy dEl;Vjh—r e'khuk ij Hkh d<kb dh tkrh gA



oL= fm t kbu d rRo



gkFk dh d<kb:

- 2- **fiiyh** $\frac{1}{4}$, **flyd** $\frac{1}{2}$ % diM: d: VdM: dk fd l h fo'k" k vdkj ;k iVu: e: dkV k tkrk g: vkj b l :
 ,d vU; diM: dh lrg ij yxk; k tkrk g] fiiyh rduhd e: ifj"dj. k d: fy, yxk, x,
 diM: d: fdukj k dk flyk tkrk g: ;k d<kb: dh tkrh gA



fiiyh $\frac{1}{4}$, flyD; $\frac{1}{2}$

- 3- **ipod** % ipod: e: flykb: rduhd dk mi; kx dj fofHkUu vk—fr vkj vdkj dj diM: d: nk
 ;k nk l: vf/kd VdMk: dk tkMk tkrk gA cM doj vkj jtkb: cuk: d: fy, ipod: rduhd
 cgr ykdfç; gA vdkj d: vk/kkj ij fofHkUu 'kfy; k: e: ipod: cuk; k tkrk gA



ipod:



oL= fM t kbu d rRo

- 4- Qfcd xnfjx ¼pUuV Mkyuk½ % bl e] lcl igy] ,d diM d k l jy lh/kh flykbi ¼jfux LVhp½ d }jk flyk tkrk g v k j m l d ckn pUuV cuk d fy, /kx d k [khp fy; k tkrk gA diM d k fldkMu dh bl rduhd d k ç; kx fYy v k j jQy cuk d fy, fd; k tkrk gA xglTtk v k j ifj/kku e bl rduhd d k 0; kid : i l ç; kx fd; k tkrk g] ; g fdlh Hkh ifj/kku d fy, lLdj.k cukrh g] v k j oL= mRikn d fdukj v k j lrg dh lnjrk c<krh gA
- 5- Lekfdix% Lekfdix pUuV Mkyu dh fof/k d k ,d l'kkf/kr lLdj.k gA ç; kx dh tku okyh pUuV Mkyu dh rduhd dh otg l Lekfdix e cgr vf/kd diMk yxrk gA Lekfdix dbi çdkj dh gkrh g(lcl ykdfç; Lekfdix g%
- 1- bfXy'k Lekfdix % NkVh pUuV d k ç; kx dj diM d k NkV pUuV dh ifä; k cuk d fy, cgr djhc [khp tkrk g v k j vx gkFk dh d<kb d k mi; kx dj vy—r fd; k tkrk gA bfXy'k Lekfdix d l tku d fy, mi; kx fd, tku oky ykdfç; d<kb d V d g& Ýp u,V] cid LVhp v k j Ø, l LVhp vkfnA ,d gh fn'kk e cuk b x b pUuV d dh otg l ; g diM e dN f[kpko dh {kerk mRiUu djrk gA cPpk d oL= k v k j efgyk v k d diM d fy, ; g rduhd cgr ykdfç; gA



bfXy'k Lekfdix

- 2- dukMk dh Lekfdix% ,d diM ij oxkd kj Cy,d ri; kj fd, tkr g] v k j m l d ckn diM d k flyk v k j ,d [kk l iVu e [khp fy; k tkrk gA vyx&vyx iVu e diM d k [khpuk vyx&vyx ifj.kke nirk g v k j ,d diM dh lrg ij fnypLi f=vk; keh çHkko iink djrk gA bl rduhd d k Hkh tkyh ¼yfVI½ Lekfdix Hkh dgk tkrk gA ; g rduhd ?kjy l keku ¼d'ku doj½ v k j ifj/kku mRikn ¼efgykv d V,i½ e cgr ykdfç; gA



oL= fm t kbu d rRo



dukfM;u Lekfdix

- 6- diM dk rg dju dh rduhd% diM dh lyhfVix ¼fldkMu½ vkj Vfdix ¼[kk lu½ d fofHkUu rjhd gA diM dh ; rduhd dkykrhr vkj ikjifjd gA Ldiy dh ik'kkd d fy, pUuVnkj LdV. bue lcl vke gA



(<http://tonianneeveritt.blogspot.in/2012/11/pleated-fabric-ciment-pleaters-in-london.html>)

- 7- /kkxk [khp dh rduhd% ,d diM e [kcljr fNæ cuku d fy, /kkxk dk [khp tk ldrk gA diM dk [kjc gku l cpku d fy, /kkxk dh x.kuk dj cgr lko/kkuh l diM l /kkxk dk [khp tkrk gA



(<http://www.needlenthread.com/2009/02/tutorial-coral-knot-in-drawn-thread.html>)



oL= fM t kbu d rRo

I k j k'k

bl v/;k; dk mÍ'; oL=k d vyıdj.k dh rduhd d fofHkUu çdkj d le> fodflr djuk gA rduhd dk le>u d fy, Nk=k dk fofHkUu -'; dk n:[kuı dh t : jr gA ;g v/;k; oL= fMtkbu d {k= eı dıMı dh lrg d vyıdj.k d fy, ç;kx dh tkuokyh rduhd& d<kb] fiıy] ipod] /kkxk [khıpu] fofHkUu çdkj dh Lekfdıx] rg] lyhV cukı] [kkıluı vkıj pıUıV cukı vkfn dk ifjp; djrk gA bldı fy, d<kb] Lekfdıx vkıj vU; rduhd d dıN okLrfod dıMı dk fn[kkuı dh Hkh vko'; drk gkxhA lyhfVıx dh rduhd dk dxrt rg djuı dı }kjk Hkh le>k;k tk ldrk gA ;g NkKı dk lrg vyıdj.k d fy, jpukRed lek/kku çklr djuı dı fy, dıMı dh lrg eı cnyko lKfK gkFk lı lıbı dk ç;kx djuı eı Hkh l{ke djrk gA

vH;k l

1- fuEufyf[kr dı ckı eı lf{klr fMı.kh fy[kı

d½ gkFk vkıj e'khu d<kbı dı chp dk vırj

[k½ 'kh'k dh d<kbı

x½ fiıy

?k½ oL=k d vyıdj.k dk mÍ';

M½ Lekfdıx

2- dıMı ij çklr fd, tk lduı okyh lrg vyıdj.k dh rduhd dk feyku djı

lyhVı	d<kbı
t jnk t h	/kkxk [khıpuı dh rduhd
Lekfdıx	y[kuÅ
Nn	t kyh
fpdudkjh	Ldıy Mıı dh LdVı

3- cktkj lı 3" x 3" bp vkdkj eı vyx&vyx dıMı dı ueuı yı yhfı ,A mUgı ,d ,2 dı vkdkj dh 'khV ij fpıdkı, vkıj ,d ycfıy pKVı rı;kj djıA



oL= fM t kbu d rRo

v/;k; 10

fM t kbu vkj i'koj çFkkvk dh çLrfr

10- fM t kbu vkj i'koj çFkkvk d fy, çLrfr;k

fM t kbu {k= T;knkrj jpukRedrk d l kFk&mUe[k l ok g] vkj oL= fM t kbu Hkh bl dk viokn ugh gA fM t kbuj dk viui xkgd dh oj;rkvk] vko';drkvk vkj ctkj d #>ku dh n[kHkky dju dh t:jr gkrh gA

bl v/;k; e ge vke rkj ij diMk fM t kbu d {k= e miyC/k i'koj çFkkvk dh [kk t djx:A bl fofHkUu pj.kk e le>k tk l drk gA

d½ oL= fM t kbu dk;@ifj;ktuk d fy, ,d xkgd l liid djuk% bl [kM e ,d fM t kbuj dk foLr'r D;fjdye foV %dk'ky] dk; vuHko vkj uke] liid fooj.k vkfn 0;fäxr tkudkj dh ckj e i'koj tkudkj½ r;kj dju dh t:jr gkrh gA

[k½ xkgd d l f{klr fooj.k dk le>uk% ,d xkgd dk D;k pkfg, vkj ml bl dh vko';drk D;k g] ;g le>uk lcl egRoil.k fgLlk gA çR;d ctkj vyx gi vkj bl rjg çR;d xkgd vyx gkrk gA fM t kbu d mÍ'; dh cfu;knh : iji[kk] le; lhek] ifjek.k vkj dke dh ç—fr vkfn dk xkgd d l f{klr fooj.k e ifjHkkf"kr fd;k tkrk gA

x½ y{;k dk vkdyu% y{;k dk vkdyu vxyk dne g] ft l d vk/kkj ij ,d fM t kbu ifj;ktuk dk ijk dju d fy, vko';d le;] Je 'kfä vkj ç;k lk d vueku yxk dj ,d fM t kbuj }kjk l f{klr fooj.k r;kj fd;k vkj xkgd d l leu çLr'r fd;k tkrk gA

?k½ fM t kbu le>krk% nkuk i{kka vFkkir xkgd vkj fM t kbuj l rF;k d vk/kkj ij] ,d fM t kbu le>krk r;kj fd;k tkrk g vkj bl ij nkuk i{kka }kjk gLrk{kj fd, tkr gA fM t kbu le>krk e mRikn dk ctkj e yku rd fM t kbuj }kjk fM t kbuk dk xlr j[ku t l h dbi 'kri 'kkfey gkrh gA blei Hkxrku dh 'kri Hkh 'kkfey g] ;g çfr ?kV ;k nifud vk/kkj ij gk l drk g] ;g ,d okf"kd le>kr; ;k fjVuj&f'ki Hkh gk l drk g] tk fuf'pr vof/k d fy, ,d il.kdkfyd jktxkj d cjkj gA

3½ ,d ifjHkkf"kr l nHk e jpukRedrk dk ç;kx% xkgd d l f{klr fooj.k dk /;ku e j[kr gi, fM t kbu vo/kkj.kk, cukb tkrh gA fM t kbu l gh jix] mfpr diM:@lkexh vkj foLr'r rdudh fof"k"Vrkvk d }kjk leFkr gkr gA



oL= fM tkbu d rRo

- p_½** fM tkbu çLrfr vkj xkgd dh çfrfØ; k fM tkbu dk xkgd d lkeu çLrfr fd; k tkrk gl vkj l'kk/kuk d l nHk e fM tkbuj }kj xkgd dh çfrfØ; kvk dk 'kkfey fd; k tkrk gA
- N_½** fM tkbu tek djuk çkj fHkd vkj vfre fM tkbu dk l hMh ; k MhfoMh t l h l, V d, i h] okLrfod vkdkj d fçVvkmV] d i M d ueu vkj rduhdh fofun'k 'khV d l kFk l kFk vU; l kexh ckMk d t l vko'; d çk: i e xkgd d lkeu çLrfr fd; k tkrk gA
- t_½** d, i h jkbV vkj vU; dkuuh ckr fM tkbu dk l Hkh dkuuh 'krk dk /; ku j [kr gl, cuk; k tkrk gl mnkgj. k d fy, d, i h jkbV & ; g vke rkj ij , d l hfer le; vof/k d fy,] , d ey dke d fuekirk dk çnku fd; k tku okyk fo'k" k vf/kdkj gA fM tkbuj bu vf/kdkj dk viuh ikl j [kr gl vkj , d j, ; YVh ekx l dr gl tk çR; d VdM d fy, fu/kkfjr , d fuf'pr 'kYd gA VdMk dk ft ruh vf/kd l ; k e mRikfnr ; k cpk tk, xk j, ; YVh mruh vf/kd ; k le>kr d vk/kkj ij gk l drh gA
- >_½** çLrfr] pkyku vkj Hkxrku tek dju d ckn fcfyx d fy, pkyku cuk; k tkrk gl vkj vfre Hkxrku tkjh dju d fy, bl xkgd dk çLrfr fd; k tkrk gA dHkh dHkh fM tkbuj vfxe Hkxrku ç. kkyh e dke d jr gl ft le fM tkbu dk dke 'k: dju l igy mld 'kYd dh dN çfr'kr jkf'k y yh tkrh gl vkj ckdh dk fofHkuU pj. kk e ; k fM tkbu ifj ; ktuk d vir e Hkxrku fd; k tkrk gl A

l kjk'k

bl v/; k; e diMk m | kx dh i'koj çFkkvk dk crk; k x; k gA oL= fM tkbuj dk , d xkgd d fudV lg; kx e vkj xkgd çLrfr rFkk çfrfØ; k d vk/kkj ij dne nj dne dke dju dh t: jr gkrh gA ; g oL= fM tkbu d {k= dk , d vfHkuU fgLlk gl vkj bl dh dk; l ç. kkyh dk voykdu çkr dju d fy, bl le>uk vko'; d gA bl v/; k; e dke l lcf/kr fofHkuU egRoil. k 'kcnkofy; k] t l & xkgd dk lf{klr] fM tkbu le>kr] d, i h jkbV vkj vU; dkuuh fopkj] fM tkbu tek djuk] pkyku cukuk vkfn d ckj e crk; k x; k gA Nk= k d Kku dk c<ku d fy, bl v/; k; dh f'k{k. k i) fr e 0; k [; ku d l kFk & l kFk 0; kogkfjd i'koj çLrfr d udyh çn'kuk dk 'kkfey fd; k x; k gA

vH; k l

- 1- fuEufyf[kr d ckj e lf{klr fVli. kh fy [k
- d_½** d, i h jkbV
- [k_½** xkgd çfrfØ; k
- x_½** fM tkbu le>krk



oL= fm tkbu d rRo

?k½ ÝhykI

3½ ,d xkgd I l i d! djuk

2- Igh Ig&Icf/kr 'kCnk dk fpfàr dj½

Hkxrku	pkyku
çLrfr	Ie; Ihek
fm tkbu dk I f{klr fooj.k	fm tkbu vo/kkj.kk, I
fm tkbu çLrfr	d, ihjkbV
fjVuj&f'ki	ÝhykI



oL= fM t kbu d rRo

'kCndk"K

- ◆ le>kirk ¼dj kj½ fopkj ;k Hkkouk e InHkkouk ;k vu:irk; lgefr dh ,d fLFkfr ;k ifj.kkeA
- ◆ Lopkfy r% Lopkyu@Lo&çfjr fu;=.k ;k lpkyu
- ◆ b:i-% b:lk elhg l igy
- ◆ Dyli% phtk dk ,d lkFk tkMu; ;k j[ku: d fy, ,d c:l] ciM ;k DyLi
- ◆ lL—fr% dyk vkj ekuo ckf) d miyfc/k dh lkefgd ekuh tku: okyh vU; vfHk0;fä;kA
- ◆ ifjHkkf"kr çlx% ifjLFkfr;k ftue; ,d ?kVuk gkrh gi ,d 0;oLFkk gA
- ◆ fMtkbu% ,d lrg ;k ifj/kku] ;k vU; oLr dh bl: cuk;@mRikfnr fd, tku: l igy d: i vkj dk;l dk fn[kku: d fy, r;kj ,d ;ktuk ;k MkbxA
- ◆ tkj% egRo
- ◆ i;kj.k% ifjo"K
- ◆ tkrh;% dN lkl—frd fo'k"krk, j[ku: okyh ,d fo'k"K vkcknh ;k mi leg l lcf/krA
- ◆ [knkb% fd l h pht dh [knkb dh dkjokb] fo'k"K : i l ,d ijkrkfRod LFkyA
- ◆ fu;k r% fcØh d fy, n l j n'k e ¼oLrvk ;k l okvka½ Hktuka
- ◆ Qfcd% diMk
- ◆ çfrfØ;k% fd l h dk;l ;k mRikn dh çfrfØ;kvk: d ckj e tkudkjha
- ◆ iokuueku% Hkfo"; d: #>ku dh Hkfo";ok.khA
- ◆ :i% fd l h Hkh pht dk n'kuh; vkdkj ;k foU;k lA
- ◆ T;kferh;% T;kferh; vk—fr;k l lcf/krA
- ◆ vkrfjd% fd l h bekjr ;k ?kj d v n j d {k=A
- ◆ fyuu% lu d j'skk l çklr ,d diMkA
- ◆ :iku rj.k% ifjoriu dh çfØ;k
- ◆ :ikdu ¼vk—fr½ ,d l tkoVh fMtkbu rRo
- ◆ çk—frd% ç—fr l çklr@ç—fr l fy;k x;k



oL= fm t kbu d rRo

- ◊ I t koVh% I t koVh
- ◊ fNæ% Ninu ;k Hknu }kjk cuk;k x;k ,d Nn
- ◊ vkfne% bfrgkI eı ,d çkjfhkd pj.k
- ◊ vo'k"kk% fdIh ph t dh ,d NkVh Ih 'k"kk ek=kA
- ◊ Økfr% ,d egRoil.ki eı dı Ic/k eı Iekt dı cy dı ek/;e Iı gkuı okyk ,d vpkud ifjoriuA
- ◊ jı'ke% dkdu cuku dı Øe eı jı'ke dı dhMk }kjk mRikfnr vkj /kkxı rFkk diMı cuku dı fy , ,df=r ,d vPNk] etcr] eyk;e] pednkj jı'kkA
- ◊ drkbı ¼fLifux½% rırvkı dk /kkxı ;k Iı eı ifjofrıı djuı dh dkjiokbı ;k çfØ;kA
- ◊ fLFkj—r% fLFkj djuk ;k cukuk
- ◊ dfir% vfLFkj
- ◊ 'kıyh% ,d IH; vkj vokLrfod 'kıyh eı fp=.k ;k mipkja
- ◊ çk|kfxdh% 0;kogkfjd mıı' ;k dı fy, fo'k"kk :ı Iı m|kx eı oKkfud Kku dk vuç;kxA
- ◊ oL=% diMk@diMA
- ◊ cukoV% vgIkI] fdIh Hkh Iırg dh mifLFkfrA
- ◊ Fkhe% fo"kk; ;k Ikp
- ◊ 0;kıkj% eky vkj Iokvkı dk [kjhnuı vkj cpuı dh dkjiokbıA
- ◊ #>ku% ,d IkekU; fn'kk ftIeı dıN fodkI'khy ;k cny jgk gkA
- ◊ /kkxk% cukb] cukb] ;k flykbı dı fy, mi;kx fd;k tkuı okyk dkrk gvk /kkxkA



oL= fM tkbu d rRo

vHkkj Lohdkj

- ◆ bdkbI -IV dk v/;k; 6% Jh iFkohjkt ey] fu¶V gñjkcn ei cu diM di fM tkbu foHkkx ei Igk;d çkQIj }kjk ldfyrA
- ◆ bdkbI d v/;k; 1-4 d fp=% fu¶V gñjkcn] cp 2010&14 ei oL= fM tkbu foHkkx d Jh fn0; fl lfn;k dk dk;A
- ◆ bdkb& II d v/;k; 2-4 ei clir@xh"e 2014 d #>ku d iokuenu ckM% fu¶V gñjkcn] cp 2010&14 dh IJh #r|tk ,l- egktu vkj cu diM di fM tkbu foHkkx dh yko.;k feÜkhekuhA
- ◆ bdkbI & II vkj III d fp=% fu¶V gñjkcn] cp 2010&14 ei oL= fM tkbu foHkkx d Jh 'k'kkd 'kkfMY;A
- ◆ bdkbI & III d v/;k; 4-4 dk çj.kk ckM% fu¶V gñjkcn] cp 2010&14 dh oL= fM tkbu foHkkx dh IJh vfdrk xlrk vkj fu¶V gñjkcn] cp 2010&14 d cu g, oL= fM tkbu foHkkx d vkuin flgA
- ◆ bdkbI&-IV d v/;k; 8 ei ^ck/kuh* ^ckfVd* vkj ^rg }kjk çfrjk/k* d diMk d ueu] vkj bdkb& IV d v/;k; 9 ei ^fi iyh* vkj ^Lekfdix* d ueu% fu¶V gñjkcn d oL= fM tkbu foHkkx d cp 2010&14 dh IJh fouhrk dekjh vkj IJh vfdrk xlrkA
- ◆ bl fdrkc ei mi;kx fd, x, fp= lcf/kr ocIkbV d lnhk d lkFk eä lkrk l fy, x, gA
- ◆ vU; lHkh fp=@rLohj; çk- vuie tlu }kjk çnku dh xbi gA
- ◆ ilrd dk vkoj.k fu¶V gñjkcn d Q'ku dE;fud;'ku fM tkbu foHkkx d cp 2010&14 d Jh fufu 'k[kj }kjk cuk;k x;k gA



oL= fM t kbu
d rRo

vH;kI ifLrdk



oL= fM t kbu d rRo

fo"K ; l kexh

bdkbi -I : oL= m | kx dk ifjp ;

0 ; kogkfj d 1% 92

oL=k dk fofHkUu -f"Vdk.kk l l e>ukA

0 ; kogkfj d 2% 93

oL= fM tkbuj d oL= fM tkbu i : 'k] Hkfedk vkj ftEenkfj ; k dk l e>ukA

0 ; kogkfj d 3% 94

fM tkbu d cfu ; knh Hkk"kk vkj bld l kFk t | M egRoi . k 'kCnk dk l e>ukA

0 ; kogkfj d 4% 97

oL= fM tkbu e fM tkbu d rRok d 0 ; kogkfj d vuç ; kx

0 ; kogkfj d 5% 101

cui gi , oL=] cukbi dh rduhd d vu | kj miyC/k cui gi ,
diM d çdkj dk l e>ukA

0 ; kogkfj d 6% 102

cuk gvk oL= dk ifjp ; A

0 ; kogkfj d 7% 103

efær oL=k l l cf/kr fM tkbu 'kCnkofy ; k dk l e>ukA

0 ; kogkfj d 8% 106

diMk dk çfrj kf/kr dju d fofHkUu rjhd vkj oL= fM tkbu e
bud mi ; kx dk tkuukA

0 ; kogkfj d 9% 109

oL=k ij vy | dj . k dh rduhd d fofHkUu çdkj d fy , l e>
fodfl r djukA

0 ; kogkfj d 10% 115

oL= fM tkbuj k dh i : 'koj çFkkvk dk l e>ukA



oL= fm t kbu d rRo

0 ; kogkfjd 1

mí' ; %

- ◇ fofHkUu —f"Vdk.kk l oL=k dk le>ukA
- ◇ çe[k ?kVukvk d ek/;e l ,frgkfd ?kVukvk dk v/; ;uA
- ◇ oL= m|kx] m|kx d fofHkUu {k=k vkj ijLij lcf/kr m|kxk dk voykduA
- ◇ ,d i'k d : i e oL= fm t kbu dk le>ukA

30 Nk=k d ,d c p d fy, ç; kx'kkyk dh vko'; drk

lkexh vkj midj.k

v/;k; 1 ¼1-1] 1-2] 1-3] vkj 1-4½ ; mi&bdkb; k fl) kr vk/kkfjr gj blfy, ç; kx'kkyk dk dkb; 0; kogkfjd dk; l vkofvr ugh fd; k x; k gA v/;k; vkj f'k{kdk dh ekxinf'kdk d : i e çnku dh xbl v/; ;u lkexh vkj f'k{k.k i) fr dk ikyu dju dh t : jr g(gkykfd Nk=k d lh[ku d vuHko dk c<ku d fy, dN d{kk midj.kk dk mi; kx fd; k tk l drk gA

d{kk midj.k

- 1- çktDVj ; k fd; ku & ,d
- 2- yxHkx 6 x 6 QhV dh lQn Løhu & ,d
- 3- mfpr fctyh duD'kuA
- 4- iu Mkbo & yxHkx 2 thch {kerk & ,d
 - ◇ [kjhn x, midj.kk dh yxrr LFkkh; ; k vrjjk"Vh; ckMk ij fuHkj djrh gA
 - ◇ —i ; k /; ku n] fp=k] ohfM; k ; k çLrfr; k dk lgtu d fy, ,d iu Mkbo ,d il.k Løhu ekM v,fM; k fotvy çLrfr d fy, bl fd; ku (KIAN) l tkMuk vko'; d gA
 - ◇ fp=k dk lgtu vkj v,fM; k fotvy lnHk dk d{kk e yku d fy, f'k{kdk }kj iu Mkbo dk mi; kx fd; k tk l drk gA
 - ◇ d{kk e fyf[kr vH; k l vk; kftr dju vkj mÜkj i flrdkvk dh tkp dju d fy, d fy, mÜkj ldr f'k{kdk dh ekxinf'kdk e lyXu gA

,d 0; kogkfjd vuHko d : i e l xgky; dk nkjkk 0; k[; ku d vykok] Nk=k d fy, ik l d l xgky; k ¼diMk lcf/kr½ dh ,d ; k=k vk; kftr dh tk l drh gA ,d l xgky; dh ; k=k l Nk= oL= bfrgk l d lcf/k e ,d Li"V tkudkj çlkr djx A



oL= fM t kbu d rRo

0 ; kogkfjd 2

mí';%

◇ oL= fM t kbu d i'k] oL= fM t kbuj dh Hkfedk vkj ftEenkfj; k rFkk dke d fofHkUu igy|vk] le; dh ;k tuk cukui vkj oL= fM t kbu m|kx e l keU; : i l vu|lj.k dh tku okyh çofÜk; k dk v/; ;uA

◇ fM t kbu d fof'k"V {k=k dk le>ukA

◇ 0; k[; ku d vykok ,d diMk fM t kbuj i)fr d dke

ftEenkfj; k dk le>uk% 0; k[; ku d vykok Nk=k dk fo"k; dh cgrj le> d fy, if=dkvk] iLrdk] fQYek d : i e v,fM; k fotivy lnHk vkfn fn[kk, tku pkfg,A

lkexh vkj midj.k

v/; k; 2 ½-2] 2-2] 2-3] vkj 2-4½ ; mi&bdkb; k fl)kr vk/kkfjr gj blfy, ç; kx'kkyk dk dkb 0; kogkfjd dk; l vkoFvR ugh fd; k x; k gA v/; k; vkj f'k{kdk dh ekxinf'kidk d : i e çnku dh xb v/; ;u lkexh vkj f'k{k.k i)fr dk vu|lj.k dju dh t: jr g(gkykfd Nk=k d lh[ku d vuHko dk c<ku d fy, dN d{k midj.kk dk mi; kx fd; k tk ldrk gA

d{k midj.k%

1- çktDVj ; k fd; ku (KIAN) & ,d

2- yxHkx 6 x 6 QhV dh lQn LØhu & ,d

3- mfpr fctyh duD'kuA

5- iu Mkbo & yxHkx 2 thch {kerk dk & ,d

◇ [kjhn: x, midj.kk dh ykxr LFkkuh; ; k virjjk"Vh; ckMk ij fuHkij djr gA

◇ —i; k /; ku n] fp=k] ohfM; k ; k çLrfr; k dk lgtu d fy, ,d iu Mkbo ,d i. k LØhu ekM v,fM; k fotivy çLrfr d fy, bl fd; ku l tkMuk vko'; d gA

◇ fp=k dk lgtu vkj v,fM; k fotivy lnHk dk d{k e yku d fy, f'k{kdk }kjk iu Mkbo dk mi; kx fd; k tk ldrk gA

◇ d{k e fyf[kr vH; k l vk; kfttr dju vkj mÜkj ifLrdkvk dh tkp dju d fy, d fy, mÜkj ldr f'k{kdk dh ekxinf'kidk e lyXu gA



oL= fm tkbu d rRo

0 ; kogkfjd 3

mí';%

- ◆ fm tkbu dh cfu;knh Hkk"kk vkj bl l tMh egRoil.ki 'kCnkoyc dk le>ukA
- ◆ fm tkbu l tMh cfu;knh fl)krk dk le>ukA
- ◆ fm tkbu d rRok vkj ft l ij fm tkbu vk/kkfjr g] mu fl)krk dk le>ukA
- ◆ l rryu] xfr] iujkofÜk] tkj] fojk/kkHkk l vkj ,drk dk le>ukA
- ◆ fm tkbu dh cfu;knh ckrk d l kFk ifjfr gku d fy, fofHkUu igyvk dh 0;k[;k djuk] tk Nk=k dk fm tkbu fl)krk d rdilxr lkp d vuç;kx d l kFk
- ◆ fm tkbu cuk e l {ke djxkA

lkexh vkj midj.k

0;ogkfjd dk;l d{kk e gh fd;k tk ldrk g vr% bl v/;k; d fy,] dkb ç;kx'kkyk 0;kogkfjd dk;l vko';d ugh gA v/;k; vkj f'k{kdk dh ekxnf'kd d i e çnku dh xbl v/;u lkexh vkj f'k{k.k i)fr dk ikyu dju dh t:jr g(gkykfd Nk=k d l h[ku d vuHko dk c<ku d fy, dN d{kk midj.kk dk mi;kx fd;k tk ldrk gA

d{kk midj.k%

- 1- çktDVj ;k fd;ku (KIAN) & ,d
- 2- yxHkx 6 x 6 QhV dh lQn Løhu & ,d
- 3- mi;Dr fctyh duD'kuA
- 4- iu Mkbo & yxHkx 2 thch {kerk &,d
 - ◆ [kjhn x, midj.kk dh yxrr LFkkuh; ;k virjjk"Vh; ckMk ij fuHkj djrh gA
 - ◆ —i;k /;ku n] fp=k] ohfM;k ;k çLrfr;k dk lgtu d fy, ,d iu Mkbo ,d il.k Løhu ekM v,fM;k fotvy çLrfr d fy, bl fd;ku l tkMuk vko';d gA
 - ◆ fp=k dk lgtu vkj v,fM;k fotvy lnhk dk d{kk e yku d fy, f'k{kdk }kjk iu Mkbo dk mi;kx fd;k tk ldrk gA
 - ◆ d{kk e fyf[kr vH;k l vk;kftr dju vkj mÜkj ifLrdkvk dh tkp dju d fy, d fy, mÜkj ldr f'k{kdk dh ekxnf'kd e lyXu gA



oL= fM t kbu d rRo

I k i k x ; k d k ; l

dk ; ç . k k y h v k j v , f M ; k f o t i v y 0 ; k [; k u d i v y k o k v f r f j ä x f r f o f / k ; k

- ◆ c g r j l e > ç k l r d j u i d i Ø e e i f M t k b u d i f l) k r v k j r R o k d k o . k u d j r i g i , N k = k d k o L r i v k d h , d t k M h f n [k k b i t k u h p k f g , A N k = k l i v f H k u o f o p k j k d k m i ; k x d j r i g i , d { k k e i l H k h v H ; k l k i j d e d j u i d i f y , d g k t k u k p k f g , A
- ◆ N k = f o f H k U u v o / k k j . k k v k i j d e d j l d r i g i v k j l c l i v P N i f o p k j k d k v f r e d k ; l e i d k x t i j ç L r i r f d ; k t k u k p k f g , A f u / k k f j r d k ; l d k l e > k u i d i i g y i N k = k d k f o " k ; d i d i N v H ; k l k i d i c k j i e i l e > k ; k v k j v k f ' k d : i l i f n [k k ; k t k u k p k f g , A
- ◆ v H ; k l f ' k { k d d h m i f l F k f r e i d { k k e i f d , t k u i p k f g ,] v k j d i N i f j " d j . k d e ? k j i j f d ; k t k l d r k g i A

j p u k v k d k c u k u i d i f y , N k = k d k d k x t d i [k j n j i i { k d k m i ; k x d j u k p k f g , A i g y i j p u k v k d h ; k t u k i f l y l i c u k b i t k u h p k f g , v k j e k x i n ' k u d i f y , f ' k { k d d i l k F k p p k i d h t k u h p k f g , A , d c k j e i t i j h n i n h t k u i i j N k = k d k c i ' k v k j i k L V j j i x k d k m i ; k x d j j p u k v k d k v f r e : i n u k p k f g , A

v H ; k l %

- 1- l Q n d k x t i j d k y h j i [k k v k i e i 8 " x 8 " b p d i d { k k d k ç k : i c u k ,] f o f H k U u v k d k j k] : i v k j c u k o V d i l k F k d k y i j i x d h U ; i u r e 7 l i 15 j i [k k v k i d k m i ; k x d j i] v k j f u E u f y f [k r e i l i ç R ; i d d i n k m n k g j . k n %
d ^{1/2} l e f e r l i r y u [k ^{1/2} v l e f e r l i r y u x ^{1/2} n k g j k o ? k ^{1/2} x f r ^{3 1/2} f o j k / k k H k k l A
- 2- l Q n d k x t d h i " B H k f e i j d k y h j i [k k v k i d k ç ; k x d j r i g i , 8 " x 8 " b p d i d { k k d k ç k : i c u k ,] i k u h v k / k k f j r j i x ^{1/4} i k L V j j i x ^{1/2} d k ç ; k x d j r i g i , f u E u f y f [k r e i l i ç R ; i d d k , d m n k g j . k n %
d ^{1/2} 1 1/2 " x 1 1/2 " b p ^{1/4} y x H k x ^{1/2} d i p k j v y x & v y x v k d k j k d k m i ; k x d j r i g i , ^ x f r * d k ç f r f u f / k R o d j u i d i f y , , d l i j p u k d k f u e k . k d j i v k j m l i p k j v y x & v y x j i x k l i H k j i A
[k ^{1/2} 2 " x 2 " b p ^{1/4} y x H k x ^{1/2} d i r h u v y x & v y x v k d k j k d k m i ; k x d j r i g i , ^ t k j ^ (E m p h a s i s) d k ç f r f u f / k R o d j u i d i f y , , d l i j p u k d k f u e k . k d j i v k j m l i r h u v y x & v y x j i x k l i H k j i A

f o f / k %

, 3 v k d k j d h , d ' k h V i = y i v k j u h p i f n , x , m n k g j . k d i : i e i i f l y v k j L d i y d k m i ; k x d j r i g i , i g y i , d : i j i [k k c u k , A v x y i d n e d i : i e i N k = k d k f n , x , d k e d i v u l k j , d l i j p u k d h ; k t u k c u k u h p k f g , A f d l i h H k h l i " V h d j . k d i e k e y i e i b l c f u ; k n h f u ; k t u i j f ' k { k d l i p p k i d h t k u h p k f g , v k j v f r e l i j p u k c u k u i l i i g y i f ' k { k d } k j k b l i v u e k f n r f d ; k t k u k p k f g , A



oL= fm t kbu d rRo

Lkkexh %

f'k{k d d fy, fd l h fo'k" k l kexh dh vko' ; drk ugh g] yfdu Nk=k d k budh vko' ; drk gkxh%

1- l Qn ; k /k l j l Qn jix dk& , 3 'khV %dkVt ; k cQ%

2- ifly

3- c:k & vkdkj% 0] 1] 3] 5 vkfn

4- dkyk ikLVj jix

5- dkyh dye ; k eghu ukd dk ekdij ; k dkyh iryh ukd dh dye

6- fd l h Hkh jix dk ek/;e] mnkgj.k d fy, & ikLVj jix] ifly jix] ikuh d jix vkfn

,3 'khV ij yvkmV

नाम विषय कक्षा तिथि सौंपा गया कार्य विवरण शिक्षक के हस्ताक्षर	
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fVli.kh% nkfguh vkj dk d{k k l k i x, dk ; i e of.kir vu l kj 8 x 8 bp dk gA cfu ; knh [kkd d d vk/kkj ij f'k{k d l j p u k , i i 'k d j u i d fy, viuk j p u k R e d y v k m V c u k u e i N k = k d k e k x i n ' k u d j l d r i g A

Nk= , d l j y v k j l i k B i Q , U V e i d k x t d i v k x i @ i h N i d h r j Q n k f g u i ; k c k , i d k u i e i ' k h V i j v i u i u k e j f o " k ; v k j r k j h [k f y [k u h p k f g , A d k x t d i l k e u i d h v k j d i o y f o " k ; v k u k p k f g , A



oL= fM t kbu d rRo

0 ; kogkfjd 4

mí';%

◇ oL= fM t kbu e fM t kbu d rRo k dk 0 ; kogkfjd vuç; kxA

◇ : ikdu %vk—fr½ d fodkl] nkgjko vkj iVu d h[kukA

0 ; k[; ku d vfrfj ä dk; ç. kkyh vkj v, fM; k fotivy xfrfof/ k; k% v/; k; 4 vkj mi& bdkb; k l lcf/kr fofHkUu fo" k; k dh cgrj le> gfly dju d fy, f'k{kdk dk vyx&vyx diM vkj fM t kbu yvkmV fn[kku dh t : jr gA f'k{kdk dk jx rjhd dk vFk le> ku d fy, , d fM t kbu dk vyx&vyx jx e fn[kkuk pkfg, A

0 ; kogkfjd vH; k l dk lQyrkiöd dju d fy, , d ç; kx'kkyk e dN l kexh vkj midj. k% dh vko'; drk gkxhA 0 ; kogkfjd dk; l d{kk e gh fd; k tk l drk g] vr% bl v/; k; d fy,] d k b ç; kx'kkyk 0 ; kogkfjd dk; l vko'; d ugh gA v/; k; vkj f'k{kdk dh ekxinf'kidk e çnku dh xbl v/; ; u l kexh vkj f'k{k. k i) fr dk ikyu dju dh t : jr g(gkykfd Nk= k d l h[ku d vuHko dk c< ku d fy, dN d{kk midj. k% dk Hkh mi; kx fd; k tk l drk gA

d{kk midj. k%

- 1- çkt iDVj ; k fd; ku (KIAN) & , d
- 2- yxHkx 6 x 6 QhV dh lQn LØhu & , d
- 3- mfpr fctyh duD'kuA
- 4- iu Mkbo & yxHkx 2 thch {kerk & , d

◇ [kjhn: x, midj. k% dh ykxr LFkkuh; ; k virjjk"Vh; ckMk ij fuHkij djrh gA

◇ —i; k /; ku n] fp=k] ohfM; k; k çLrfr; k dk lgtu d fy, , d iu Mkbo , d i. k lØhu ekM v, fM; k fotivy çLrfr d fy, bl fd; ku (KIAN) l tkMuk vko'; d gA

◇ fp=k dk lgtu vkj v, fM; k fotivy lnhk dk d{kk e yku d fy, f'k{kdk }kj k iu Mkbo dk mi; kx fd; k tk l drk gA

vH; k l % ¼4-1½

- 1- fdUgh rhu çk—frd çkf. k; k y] vkj ifly l , 3 'khV ij dky vkj lQn e : iku rj. k dh çfØ; k d ek/; e l , d : ikdu mRiUu djr gA
- 2- fd l h Hkh çk—frd ; k ekuo fufeir oLr dk y & vkj , 3 'khV ij bld viuey : i e bldk Ldip cuk, A , 3 vkdkj 'khV ij bl l çfjr 3 T; kferh; vkj 3 ltkoVh 'kyh dh



oL= fm t kbu d rRo

vk—fr; k_{1/4}, d 'khV ij 3 : ikdu_{1/2} cuk, A

- 3- dkb! Hkh fo"K; pu! vkj ,d ,3 vkdkj dk fo"K; ckM! cuk, A fo"K; ckM! l çj.kk yidj 6x6 bp vkdkj d! 4 : ikdu cuk, A

vH; k l % 1/4-2 1/2

- 1- lQn dkxt ij ifly l 12" x 12" bp d! d{kk dk çk : i cuk, j Bkl ei dkyk ; k ç—fr l çfjr fd l h ,d jix l 1 1/2" x 1 1/2" bp 1/4yxHkx_{1/2} dk ,d : ikdu cuk, j vkj fuEufyf[kr ei l çR; d dk çfrfuf/kRo dju! d! fy, bl vk—fr dk 9 mi; kx ,d mnkgj.k dju! d! fy, bl : ikdu dk 9 l 12 ckj ç; kx dj

d_{1/2} lh/kk nkgjko

[k_{1/2} gkQ M₁, i nkgjkuo 1/4Å/kok/kj_{1/2}

x_{1/2} bV & nkgjko 1/4{kfr t_{1/2}

?k_{1/2} nil.k nkgjkoA

- 2- lQn dkxt ij ifly l 12" x 12" bp d! d{kk dk çk : i cuk, j yxHkx 1 1/2" x 1 1/2" bp dk ,d : ikdu cuk, A nk jixk ei ekuo fufe!r oLrvk l çfjr] fuEufyf[kr ei l çR; d d! nk mnkgj.kk dk çfrfuf/kRo dju! d! fy, bl vkdkj dk 6 l 9 ckj nkgjk, l %

d_{1/2} ?kMh dh l b; k dh fn'kk ei nkgjko

[k_{1/2} gkQ M₁, i Å/kok/kj nkgjko

vH; k l % 1/4-3 , o 4-4 1/2

- 1- lQn dkxt ij ifly l 8" x 8" bp d! d{kk dk çk : i cuk, j 1 1/2" x 1 1/2" bp 1/4yxHkx_{1/2} dk ,d : ikdu cuk, A bl vk—fr dk vyx&vyx fou; k l k ei mi; kx dj vkj fuEufyf[kr ei l çR; d d! nk mnkgj.k nA

d_{1/2} dkyh : ij] [kk ei ,d lex iVu! l rg cuk, j A

[k_{1/2} dkyh : ij] [kk ei 1 1/2" bp pkMkb! dk ,d c,Mj cuk, A

x_{1/2} diy : ikdu iVu! vkj c,Mj dk mi; kx dj r g, fl j d! LdkQ! d! fy, ,d yvkmV cuk, A

- 2- d_{1/2} lQn dkxt ij Ng jixk dk mi; kx dj 12" x 12" bp ei fl j d! LdkQ! d! fy, ,d fm tkbu cuk, A vki Åij d! vH; k l l 1-x d! iVu! vkj yvkmV dk mi; kx dj l dr gA



oL= fM t kbu d rRo

[k½ mijkä vH;kl l- 2-d e: cuk, x, ¼, d gh vdkj d½ flj d: LdkQl dh fMtkbu d: nk jx&rjhd: cuk,]

- 3- lQn dkxt ij 15" x 9" bp ¼yxHkx½ e: 1 ½" x 1 ½" bp ¼yxHkx½ d: fd l h Hkh : ikdu dk mi; kx djr: gl,] 4&8 jxk dk mi; kx dj vkj 2 bp pKmb: ¼yxHkx½ d: ,d l e fUor c, Mij rFkk yxHkx 5**bp ¼yxHkx½ pKmb: c, Mij dk ,d ^iYy* d: : i e: mi; kx djr: gl, l kMh d: fy, ,d fMtkbu cuk, A

vH;kl % ¼4-4½

- 1- ,d vfHk0;fä ckM@pkVl cuk: d: fy, ,3 vdkj dk ekmV&ckMl ;k dkMl&dkxt y: vkj ç—fr l: çklr 12 l: 16 çk—frd oLrvk dk bl ij yxk, A mnkgj.k d: fy,] l: [kh ifÜk; k] iMk dh VVh Nky] ,d ik/k dk l: [kk ruk] iRFkj dk NkVk VdMk d: dM] [kky] vkfnA
- 2- ,d vfHk0;fä ckM@pkVl cuk: d: fy, ,3 vdkj dk ekmV&ckMl ;k dkMl&dkxt y: viui ?kj] n¶rj vkj vklikl d: ifjo'k l: yh xbl 12 l: 16 ekuo fufeir oLrvk dk ble: yxk, A mnkgj.k d: fy, ijkuk VFk c'k] l: ¶Vh fiu] dye] VV Qku ;k pk; d: di] fctyh d: fLop] /kkr iip] vkfnA
- 3- ,d fo"k; ;k dgkuh ij vk/kkfjr ,d vfHk0;fä ckM@pkVl cuk: d: fy, ,3 vdkj dk ekmV&ckMl ;k dkMl&dkxt y: vklikl l: yh xbl 6 l: 8 çk—frd vkj 6 l: 8 ekuo fufeir oLr, i mlei yxk, A viui fo"k; d: vuikj ckMl d: fy, ,d mi; ä 'kh"kd nA
- 4- 6 l: 10 —'; k dk 0; ofLFkr dj ,d ,3 vdkj d: ekmV&ckMl ;k dkMl iij ij fuEufyf[kr e: çR; d: d: fy, ,d ljpuk cuk, d½ ,d ikj: ifjd Hkkjrh; gLrf'kYi [k½ Hkkjr d: nk ;k rhu çfl) fp=dkjk ;k okLrdjk d: dk; l: ¼fVli.kh% mijkä nkuk d: fy, vki if=dkvk@lekpkj i=k vkfn l: —'; @rLohj: çklr dj ldr: g%A

fof/k%

,d ,3 ;k ,2 vdkj dk 'khV y: vkj uhp: fn[kk, x, mnkgj.k d: fy, ifly vkj Ldiy dk mi; kx dj igy: [kkdk cuk, A vxy: dne e: Nk=k dk fx, x, dk; l: d: vu: i fofHkUu : ikdu ¼3 l: 5½ cuk: pkfg, A bu : ikduk ij f'k{k d: l: ppk dh tkuh pkfg, vkj vfre : ikdu e: nkgjko d: l kFk vx: tku l: igy: bl f'k{k d: }kj vkuekfnr fd; k tkuk pkfg, A

Lkkex:h%

f'k{k d: d: fy, fd l h fo'k" k l kexh dh vko'; drk ugh g] yfdu Nk=k dk budh vko'; drk gkxh

- 1- ,3 'khV ;k ,2 'khV ¼dkVt ;k cQ½
- 2- ifly



oL= fm t kbu d rRo

- 3- c:k & vkdkj% 0] 1] 3] 5 xky vkj lery c'kk vkfn lgr
 - 4- dkyh dye ;k eggh ukd dk ekdj ;k dkyh iryh ukd dh dye
 - 5- fd l h Hkh jx dk ek/;e] mnkgj.k d fy, & ikLVj jx] ifly jx] ikuh d jx vkfn
- ,3 'khV ij ueu dh : ij [kk ¼ y vkmV½

नाम	
विषय	
कक्षा	
तिथि	
सौंपा गया कार्य	
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विवरण	
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शिक्षक के हस्ताक्षर	

fVli.kh% cfu;knh [kkd d vk/kkj ij f'k{k d ljpuk, i'k dju d fy, viuk jpukRed y vkmV
 cuku e Nk=k dk exin'ku dj ldr gA
 mfYyf[kr dk; l dk ijk dju d Øe e Åij d v/;k; l -'; mnkgj.kk dk lmfHkr fd;k tk
 ldr gA
 Nk=k dk exin'ku çnku dju d fy, f'k{kdk dk 0;kogfjd dk; l vk;kft r djuk pkfg,A



oL= fM t kbu d rRo

0 ; kogkfjd 5

mí';%

◆ cùkbi dh rduhd d vùlkj miyC/k cùu g, diM d çdkjk l cùu g, diM dk le>ukA

dk;ç.kkyh vkj v,fM;k fotivy 0;k[;ku d vykok vfrfjä xfrfof/k;k%

cùu g, diM dh cgrj le> gkfly dju d fy, f'k{kdk dk d{kk e cùu g, fofHkUu diM fn[kku: pkfg,A vxj lHko gk rk Nk=k dk ikl dh ,d cùkbi bdkbi dh ;k=k d fy, y tk;k tk ldrk gA

vH;kI% vH;kI fyf[kr g vkj vH;kI d vkdyu d fy, mùkj ldr f'k{kdk dh ifLrdk d lFk çnku fd, x, gA

30 Nk=k d ,d cp d fy, ç;kx'kkyk dh vko';drk%

,d ç;kx'kkyk e ç;kx dk lQyrkiöd dju d fy, dN l kexh vkj midj.kk dh vko';drk gkxhA

mi v/;k; fl)krk ij vk/kkfjr g vr% v/;k; 5 d fy, dkb ç;kx'kkyk dk 0;kogkfjd dk;l vkofVr ugh fd;k x;k g] v/;k; vkj f'k{kdk dh ekxinf'kdk e nh xbl v/;u l kexh vkj f'k{k.k i)fr dk vuIj.k dju dh vko';drk g] rFkfi Nk=k d fy, lh[ku d vuHko dk c<ku d fy, dN d{kk midj.kk dk mi;kx fd;k tk ldrk gA

d{kk midj.k%

- 1- çktDVj ;k fd;ku (KIAN) & ,d
- 2- yxHkx 6 x 6 QhV dh lQn Løhu & ,d
- 3- mi;ä fctyh duD'kuA
- 4- iu Mkbo & yxHkx 2 thch {kerk & ,d

◆ [kjhn: x, midj.kk dh ykxr LFkkuh; ;k virjjk"Vh; ckMk ij fuHkj djr h gA

◆ —i;k /;ku ni] fp=k] ohfM;k ;k çLrfr;k dk lgtu d fy, ,d iu Mkbo ,d i.k Løhu ekM v,fM;k fotivy çLrfr d fy, bl fd;ku (KIAN) l tkMuk vko';d gA

◆ fp=k dk lgtu vkj v,fM;k fotivy lnhk dk d{kk e yku d fy, f'k{kdk }kjk iu Mkbo dk mi;kx fd;k tk ldrk gA

◆ d{kk e dj, tkui oky fyf[kr vH;kI vkj mùkj ifLrdk dh tkp d fy, mùkj ldr f'k{kdk ekxinf'kdk e l yXu gA



oL= fM t kbu d rRo

0 ; kogkfjd 6

mí';%

◇ cu; g; , diMk; l; ifjpr djuk

v,fM;k fot|vy 0;k[;ku d; vykok dk;ç.kkyh vkj vfrfjä xfrfof/k;k%

cukb; ¼fuV½ dh cgrj le> gkfly dju; d; fy,] f'k{k d Nk=k; l; Vh&'kV] ek t;] LoVj vkj vU; fuV mRikn; dk fujh{k.k dju; cu; g; , diMk dh , d cfu;knh le> iku; d; fy, dgA

vH;k l% vH;k l fyf[kr g; vkj vH;k l; d; vkdyu d; fy, mÜkj l;dr f'k{k d; dh ekxinf'k d; e; fn, x, gA mi&v/;k; fl)krk; ij vk/kkfjr gA

vr% v/;k; 6 d; fy, dkb; ç;kx'kkyk dk 0;kogkfjd dk;l vkofVr ugh; fd;k x;k g] v/;k; vkj f'k{k d; dh ekxinf'k d; e; nh xbi v/; ;u l kexh vkj f'k{k.k i)fr dk vu|j.k dju; dh vko';drk g] rFkfi Nk=k; d; fy, lh[ku; d; vuHko dk c<ku; d; fy, dN d{k midj.kk; dk mi;kx fd;k tk l drk gA

d{k midj.k%

- 1- çk t;DVj ;k fd;ku (KIAN) & ,d
- 2- yxHkx 6 x 6 QhV dh lQn LØhu & ,d
- 3- mi;ä fctyh duD'kuA
- 4- yxHkx 2 thch {kerk dk iu M'kbo & ,d

◇ midj.kk; dh ykxr [kjhn; tku; oky; LFkkuh; ;k virjjk"Vh; ckMk; ij fuHk; djrh g]

◇ —i;k /;ku n; fp=k;] ohfM;k ;k çLrfr;k; dk lgtu; d; fy, iu M'kbo vko';d g; vkj ,d i; k; LØhu ekM v,fM;k fot|vy çLrfr d; fy, iu M'kbo dk fd;ku l; tkM; n; A

◇ f'k{k d; }kj; fp=k; dk lgtu; vkj v,fM;k fot|vy lnhk; d; fy, mUg; d{k e; yku; d; fy, iu M'kbo dk mi;kx fd;k tk l drk gA

◇ d{k e; dj; , tku; oky; fyf[kr vH;k l vkj mÜkj i;fLrdk dh tkp d; fy, mÜkj l;dr f'k{k d; ekxinf'k d; e; l;yXu gA



oL= fM t kbu d rRo

0 ; kogkfjd 7

mí';%

◆ Ni gl, oL=k l lcf/kr fM t kbu 'kCnkofy; k d le>ukA

◆ Nikb dh fof/k; k vkj rduhd k d t kuukA

dk;ç.kkyh vkj vyx v,fM;k fotivy 0;k[;ku l vfrfjä xfrfof/k;k%

◆ le>u d cgrj y{; dk gkfly dju d fy, Ni gl, diM d dN ueu çklr djuk vkj mUg d{kk e Nk=k d fn[kkuk vko'; d gA

,d ç;kx d IQyrkiöd vk;kftr dju d fy, ç;kx'kkyk e dN lkexh vkj midj.kk dh vko';drk gkxhA bl v/;k; d fy,) dkb ç;kx'kkyk 0;kogkfjd dk;l vko';d ugh gl D;kfd fu/kkfjr dk;l l- 4 d{kk e gh fd;k tk ldrk gA v/;k; vkj f'k{kdk dh ekxinf'kidk e çnku dh xbi v/;;u lkexh vkj f'k{k.k i)fr dk vuIj.k dju dh t:jr g(gkykfd Nk=k d fy, lh[ku d vuHko dk c<ku d fy, dN d{kk midj.kk dk mi;kx fd;k tk ldrk gA

d{kk midj.k%

1- çktDVj ;k fd;ku (KIAN) & ,d

2- yxHkx 6 x 6 QhV dh IQn Løhu & ,d

3- mi;ä fctyh duD'kuA

4- yxHkx 2 thch {kerk dk iu Mkbo & ,d

◆ midj.kk dh ykxr [kjhn tku oky LFkkuh; ;k vrrjjk"Vh; ckMk ij fuHkij djrh g]

◆ —i;k /;ku n fp=k] ohfM;k ;k çLrfr;k dk lgtu d fy, iu Mkbo vko';d gl vkj ,d i.l. Løhu ekM v,fM;k fotivy çLrfr d fy, iu Mkbo dk fd;ku l tkM nA

◆ f'k{kdk }kj fp=k dk lgtu vkj v,fM;k fotivy lnHk d fy, mUg d{kk e yku d fy, iu Mkbo dk mi;kx fd;k tk ldrk gA

◆ fyf[kr vH;kI tkp dh tkuh d{kk e dj, tku oky fyf[kr vH;kI vkj mUkj ifLrdk dh tkp d fy, mUkj ldr f'k{kdk ekxinf'kidk e lyXu gA

vH;kI 4 %0;kogkfjd%

◆ Nk=k dk ,d IQn ;k gYd IQn jx dk ,3 dkfV:t ;k cQ 'khV yku d fy, dgk tkuk pkfg,A



oL= fm t kbu d rRo

- ◇ Nk=k dk cktkj ;k fudVre nti dh ndku ij tku vkj NkV Ni diM dh drju:@ueu yku di fy, le>k;k tkuk pkfg,A vyx&vyx Ni diMk di de l de 6 ueu bdVBk djA
- ◇ diM lgh <x l 3 x 3 bp ei dkV tku pkfg, vkj lHkh ueuk dk ,3 vkdkj di dkxt cjkj virjy ij j[kk tkuk pkfg,A
- ◇ dkxt ij diM di ueuk dk yxku di fy, nkgj Vi dk mi;kx fd;k tk l drk gA
- ◇ çR;id ueu ij ycy %fyf[kr tkudkj% yxk;k tkuk pkfg,A
- ◇ bl dk;l dk le>ku l igy] Nk=k dk fofHkUu ueu fn[kk, tku pkfg,A
- ◇ Nk= Ni gi, oL=k ei ç;kx fd, x, jxk dh l[;k dh igpku dj l dr gA

fof/k%

,d ,3 vkdkj dh 'khV y vkj ifly vkj Ldiy dk mi;kx djr gi, uhp fn, x, mnkgj.k dk ml ij cuk,A diph dk mi;kx dj diM di V<&e< fgLI dk 0;ofLFkr fd;k tk l drk gA

Lkkexh f'k{k d di fy, dkb fof'k"V lkexh vko';d ugh gj yfdu Nk=k dk budh vko';drk gkxh

- 1- , 3 'khV %dkfV.t ;k cQ%
- 2- Ni gi, fofHkUu oL= & cktkj l fy, x,
- 3- ifly
- 4- Ldiy
- 5- diMk fpidku di fy, nkgjk Vi
- 6- dkVu dh diph
- 7- fy[ku di fy, dkyh dye ;k iryh ukd okyk ekdj



oL= fM t kbu d rRo

ueu: dk yivkmV

नाम विषय कक्षा तारीख दिया गया कार्य शिक्षक के हस्ताक्षर	 फैब्रिक 1 वर्णक मुद्रित	 कपड़ा 2 वर्णक पुष्प मुद्रित	 कपड़ा 3 वर्णक मुद्रित डॉट्स डिजाइन
	 कपड़ा 3 वर्णक एकल रंग	 कपड़ा 4 काले और सफेद निर्वहन प्रिंट	 कपड़ा 5 मुद्रित चेक

vf/kd tkudkjh Hkh tkMh tk ldrh gI & mnkgj.k dI fy,

- 1- Nk= ,d Ni gI, diM e jx dh lI ;k fxu ldrh gI
- 2- Nk= i"BHkfe dI jx dh igpku dI ldrh gI
- 3- Nk=k dk NikbI dh rduhd dI vuI kI diM dI çdkj dh igpku djuI dh dkf'k'k djuh pkfg,



oL= fm tkbu d rRo

0 ; kogkfjd 8

mí';%

diM; dk çfrj kf/kr dju; vkj oL= fm tkbu e; bld; mi; kx d; fofHkUu rjhd; dk tkuukA

v,fM; k fotivy 0; k[; ku d; vykok dk; ç.kkyh vkj vfrfj ä xfrfof/k; k%

v,fM; k fotivy lnHk; d; ek/; e l; 0; k[; ku l; vyx vfrfj ä xfrfof/k; kA cgrj le> gkfly dju; d; fy, diM; d; ueu; dh ,d tkMh çkr dju; vkj ml; d{kk e; Nk=k; dk fn[kku; dh t:jr gA ;fn lHko gk] rk; ikl dh ,d çfrj kf/kr diMk jxkb; bdkb; d; fy, ,d ;k=k dh 0; oLFkk dh tkuh pkfg,A /kkx; dk mi; kx dj diMk ck/ku; dh ,d tkMh rduhd; dk d{kk e; çnf'kr fd; k tkuk pkfg,A

30 Nk=k; d; ,d çp d; fy, ç; kx'kkyk dh vko'; drk% 0; kogkfjd dk; l dk lQyrkioid vk; kft r dju; d; fy, ,d ç; kx'kkyk e; dN lkexh vkj midj.kk; dh vko'; drk gkxhA bl v/; k; d; fy,] fd l h ç; kx'kkyk dh dkb; vko'; drk ugh g] D; kfd 0; kogkfjd dk; l l- 4 d{kk e; gh fd; k tk l drk gA v/; k; vkj f'k{kdk; dh ekxinf'kidk d; : i e; çnku dh xbl v/; ;u lkexh vkj f'k{k.k i)fr dk ikyu dju; dh t:jr g(gkykfd Nk=k; d; fy, lh[ku; d; vuHko dk c<ku; d; fy, dN d{kk midj.kk; dk mi; kx fd; k tk l drk gA

d{kk midj.k%

1- çktDVj ;k fd; ku (KIAN) & ,d

2- yxHkx 6 x 6 QhV dh lQn Løhu & ,d

3- mi; ä fctyh duD'kuA

4- yxHkx 2 thch {kerk dk iu Mkb; & ,d

- ◇ midj.kk; dh ykxr [kjhn; tku; oky; LFkkuh; ;k virjjk"Vh; ckMk; ij fuHk; djrh g]
- ◇ —i; k /; ku n; fp=k] ohfM; k; ;k çLrfr; k; dk lgtu; d; fy, iu Mkb; vko'; d g; vkj ,d i; k; Løhu ekM v,fM; k fotivy çLrfr d; fy, iu Mkb; dk fd; ku (KIAN) l; tkM; n; A
- ◇ f'k{kdk; }kj; fp=k; dk lgtu; vkj v,fM; k fotivy lnHk; d; fy, mUg; d{kk e; yku; d; fy, iu Mkb; dk mi; kx fd; k tk l drk gA
- ◇ d{kk e; dj; k; tku; oky; fyf[kr vH; k l vkj mÜkj ifLrdk dh tkp d; fy, mÜkj ldr f'k{kdk ekxinf'kidk e; l; yXu gA



oL= fM t kbu d rRo

vH;kI%

Nk=k d k LFkkuh; ck t kj l fuEufyf[kr l kexh çklr dju d fy, dgk t kuk pkfg,

- ◆ l rh ok;y diMk& vk/kk ehVj l ,d ehVj]
- ◆ fd l h Hkh xgj jix ei 50 xke l 100 xke çR;{k jix ¼Mkb½ ¼uhy; ;k yky t l jix vkj
- ◆ ck/ku d fy, i,fy,LVj /kkxA
- ◆ d{k k ei Nk=k d k /kkxk ck/ku dh fd l h ,d cfu;knh rduhd d k le>kuk pkfg,A Nk= fofHkUu çdkj l diMk d k ck/k l dr gjA
- ◆ Nk=k d k Li"V : i l fd l h çtix dh mifLFkr ei diM jxu d k funi'k fn;k t kuk pkfg,A
- ◆ Nk=k d fy, fof/k dh vPNh rjg l 0;k[;k dh t kuk pkfg, vkj funi'kk d k ,d dkxt ij fy[ku d fy, dgk t kuk pkfg, rkfd ?kj ij vH;kI d jr l e; bldk ikyu dj l dA

Lkkex:h%

f'k{k d d fy, dkb fo'k" k l kexh vko'; d ugh g] yfdu Nk=k d k fuEufyf[kr dh vko'; drk gkxhA

- 1- vk/kk ehVj ^eyey* ;k ok;y diMk
- 2- l Qn jix d i,fy,LVj /kkx dh c,fcu
- 3- ifly
- 4- Ldiy
- 5- yxHkx 2 yhVj {kerk d k ,d LVuy l LVhy d k dVuj & ç;kx fd;k gvk ,d
- 6- çR;{k Mkb & 2 Vcy pEep ¼;k jix dh vko'; d xgjkb vkj rhork d vk/kkj ij vf/kd½

fof/k%

pj.k 1% ok;y diM ij ifly d k mi;kx dj okfNr iVu ei diM ck/ku d fy, fu'kku cuk,A

pj.k 2%

- ◆ vk/kk ehVj l rh ok;y ;k *eyey* y vkj uhp l nHk fp= ei fn[kk, x, :i ei fM t kbu ck/k 1-
- ◆ diM d k ck/ku ei i,fy,LVj /kkx d k mi;kx dj A
- ◆ lfuf'pr dj fd ;g dkQh d l k gvk g vkj bl Bh d rjg l l jf{kr dju d fy, xkB ck/kA



oL= fM t kbu d rRo

pj.k 3% ikuh e_i lh/k jxu_i dk ikmMj feyk,_i ¼diM_i d_i Bh_d l_i l_k[k yu_i d_i fy, i_i;klr gkuk
pkfg,_½ vkj mcky_iA

pj.k 4% diM_i dk ikuh e_i j[k_i vkj 5 l_i 10 feuV rd fgyk_iA

pj.k 5% diM_i dk ckgj fudky_i vkj vfrfjä jx@jx fudkyu_i d_i fy, cgr_i ikuh e_i /kk_i y_iA

pj.k 6% bl_i l_i[ku_i d_i fy, Mky_iA

pj.k 7% ,d ckj ijh rjg l_i[k tku_i ij l_inj ueuk_i dk n_i[ku_i d_i fy, c/k_i g_i, Hkkxk_i dk /;ku l_i
[kky_iA egRoi_i.k fMli.kh% viu_i ?kj ij LVuy_il LVhy d_i ,d ,l_i criu dk mi_i;kx djuk l_ifuf'pr
dj_i ft ldk [kkuk idku_i d_i fy, mi_i;kx ugh_i fd;k tkrk gkA



1



2

lzksr: http://diyfashion.about.com/od/diytops/ss/TieDye_3.htm ¼fp= 1½

lzksr : http://www.ehow.com/how_7579356_tie-dye-applying-different-patterns.html ¼fp= 2½**

mnkgj.k d_i fy, vf/kd fMtkbuk_i dk cuku_i dh dkf'k'k dh tk ldrh g_i

d_½ Nk= diM_i ck/ku_i d_i fy, nky_i dk mi_i;kx dj ldr_i g_iA

[k_½ Nk= fofHkUu jxk_i dk mi_i;kx dj ldr_i g_i



oL= fM t kbu d rRo

0 ; kogkfjd 9

mí';%

◇ oL=k ij vydj.k dh fofHkUu çdkj dh rduhdka d fy, le> fodflr djuka

v,fM;k fotivy 0;k[;ku d vykok dk;ç.kkyh vkj vfrfjä xfrfof/k;k%

◇ cgrj le> gkfly dju d fy, pu LVhp] LVe LVhp] y;th Mith] vkfn

◇ d<kb dh rduhd d cfu;knh Vkd cfu;knh xnfj;x] ipod vkj ,flyd vkfn rduhdka dk Hkh çn'ku fd;k tk ldrk gA

◇ vk/kkj lkexh d : i e dx t dk mi;kx dj pUuVka d ckj e le>k;k tk ldrk gA

◇ f'k{kdk d ekxin'ku e mfYyf[kr lnHk iLrd çn'ku d fy, ,d vPNk —'; lkr gA

30 Nk=k d ,d cp d fy, ç;kx'kkyk dh vko';drk%

lQyrkiöd ç;kx vk;kftr dju d fy, ,d ç;kx'kkyk e dN lkexh vkj midj.kk dh vko';drk gkxhA bl v/;k; d fy,] fd lh ç;kx'kkyk dk;l dh vko';drk ugh g D;kfd fu/kkfjr dk;l l- 3 d{kk e fd;k tk ldrk gA v/;k; vkj f'k{kdk dh ekxnf'kd e nh xbl v/;u lkexh vkj f'k{k.k i)fr dk ikyu dju dh t:jr g(gkykfd lh[ku d vuHko dk c<ku vkj rduhdka d çn'ku d fy, dN d{kk midj.kk dk mi;kx fd;k tk ldrk gA

d{kk midj.k%

1- çktDVj ;k fd;ku (KIAN) & ,d

2- yxHkx 6 x 6 QhV dh lQn Løhu & ,d

3- mi;ä fctyh duD'kuA

4- yxHkx 2 thch {kerk dk iu Mkbo & ,d

◇ midj.kk dh ykxr [kjhn tkui oky LFkkuh; ;k virjjk"Vh; ckMk ij fuHkj djrh g]

◇ —i;k /;ku n fp=k] ohfM;k ;k çLrfr;k dk lgtu d fy, iu Mkbo vko';d g vkj ,d il.ki Løhu ekM v,fM;k fotivy çLrfr d fy, iu Mkbo dk fd;ku l tkM ni A

◇ f'k{kdk }kj fp=k dk lgtu vkj v,fM;k fotivy lnHk d fy, mUg d{kk e yku d fy, iu Mkbo dk mi;kx fd;k tk ldrk gA



oL= fM t kbu d rRo

- ◇ d{kk ei djK, tku oky fyf[kr vH;kI vkj mÜkj iFLrdk dh tkp di fy, mÜkj lIdr f'k{k d ekxinf'kd ei llyXu gA

I kexh%

- 1- IQn ;k Øhe difEc:d diMk & 1 ehVj
- 2- fdIh Hkh jix dk IkVu Qfc:d & 2 ehVj
- 3- IbI
- 4- ,idj /kkxk & 6 jix ei çR;id dk ,d NkVk gid
- 5- d<kbI di fy, ydMh di Ýe & 8 I 9 bp 0;kI di
- 6- fMtkbu Mkbix di fy, ifly ;k nthi dh pkd

0;kogkfjd dk; % v/;k; ei dkbI 0;kogkfjd dk;I of.kir ugh g] rFkfi tkudkj h c<ku di fy, ,d& nk rduhd k dk çn'ku fd;k tk ldrk gA

rduhd 1 & gkFk dh d<kbI

d½ LVe LVhp d<kbI

[k½ yth Mth d<kbI

x½ pu LVhp d<kbI

fof/k%

pj.k 1% nthi dh pkd dk mi;kx djr gI, Øhe ;k IQn difEc:d diM ij fMtkbu cuk,A

pj.k 2% diM dk ydMh di Ýe ij etcrh I dI A

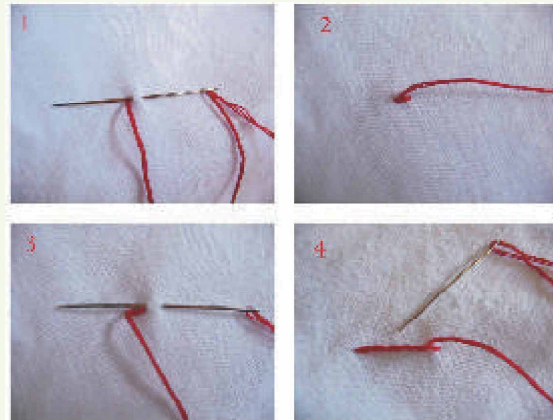
pj.k 3% d<kbI dju di fy, IbI&/kkx dk ç;kx djA

pj.k 4% d<kbI di funi'kk di fy, uhp fn, x, fp=k dk vuI j.k djA

d½ LVe LVhp d<kbI

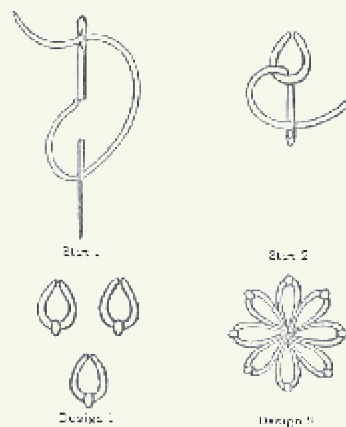


oL= fM t kbu d rRo



lzksr: <http://thestitchylife.blogspot.in/2011/02/stem-stitch-tutorial.html>

[k½ y:th M:th d<kb:



fp= d

fp= [k

d½ y:th M:th d<kb: d: fy, dne nj dne funi'k

[k½ l:hko fMt kbu d:oy l:nHk: vkj l e> d: fy, g]

Lkk:r% http://www.victorian-embroidery-and-crafts.com/chain_stitch_variations.html

Lkk:r% <http://bigbgdsd.blogspot.in/2009/09/100-stitches-40-lazy-daisy-stitch.html>

d½ pu LVhp d<kb:



oL= fm tkbu d rRo



fp= d



fp= [k

d^{1/2} pu LVhp d<kb! d! fy, dne nj dne funi'k

[k^{1/2} lHko fm tkbu doy lnhk! vkj le> d! fy, g]

Lkk r% <http://www.embroidery.rocksea.org/stitch/chain-stitch/zig-zag-chain-stitch/> ¼d d! fy, lnhk!
fp=½

Lkk r% <http://www.needlenthread.com/2006/10/embroidery-stitch-video-tutorial.chain.html> ¼[k d! fy,
lnhk! fp=½

rduhd 2 & dukMk Lekfdix

fof/k%

pj.k 1% fd lh Hkh lKVu diM! ij nthi dh pkd dk mi;kx dj xkQ cuk,A çR;d Cy,d 1 x 1
bp dk gl vkj çR;d Økl e fod.k! ij 4 fcn! giA

pj.k 2% diM! dk ydMh d! Ýe ij etcrh l! dluk gkxkA

pj.k 3% d<kb! dju! d! fy, lb&/kkx! dk ç;kx dji] ,d ey [kk r! /kkx! dk mi;kx djiA

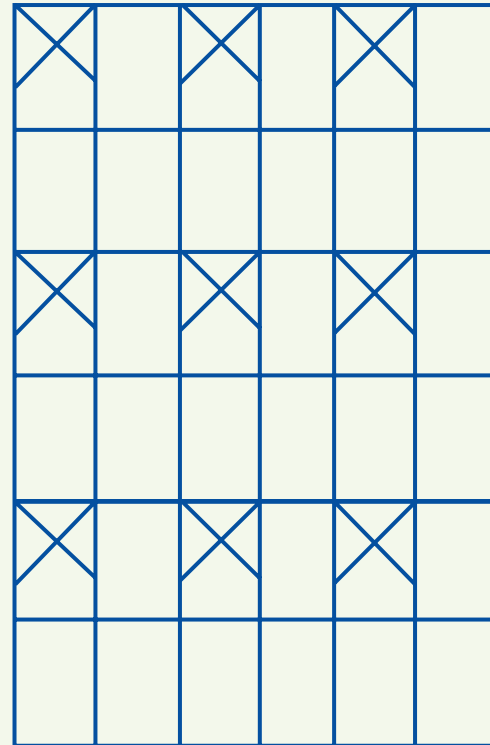
pj.k 4% d<kb! funi'kk! d! fy, uhp! fn, x, fp=k! dk vu!lj.k djiA



oL= fM t kbu d rRo

dukfM;u Lekfdix

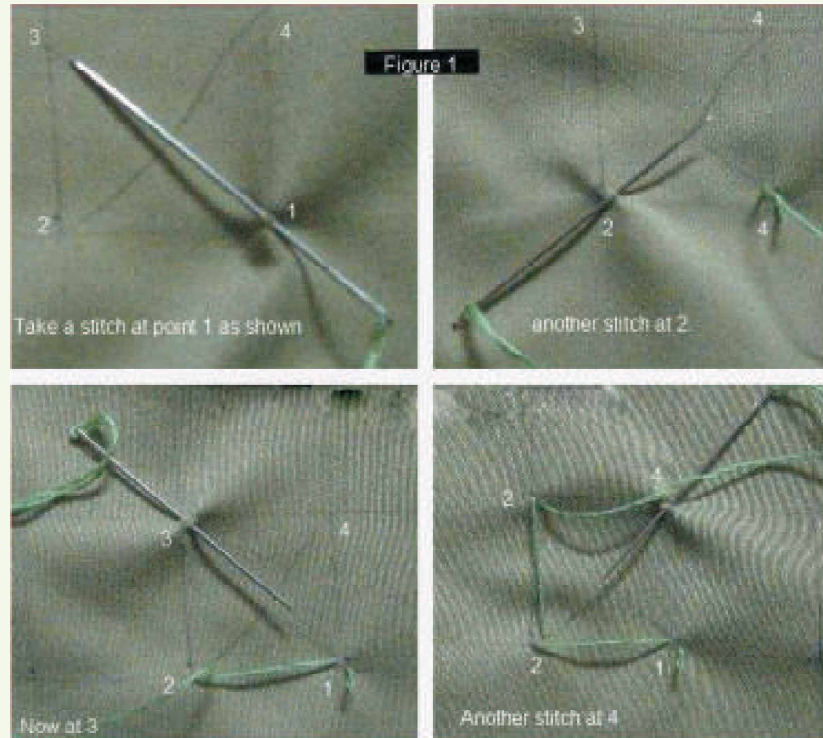
yfVI $\frac{1}{4}$ t kyh $\frac{1}{2}$ Lekfdix e Qyk dh fM t kbu d fy, xkQ





oL= fM t kbu d rRo

lzksr: <http://vani-testblog2.blogspot.in/2010/07/designs-from-bee-cottage.html>: 27 ekp! 2013



egRoil.ki fvli.kh%

vH;kI di fy, dbi fM t kbu cuk, tk l dr: gl vkj l Hkh fM t kbu ei ekfyd fopkj gku: pkfg,A

** bl 0;kogkfjd xkbM ei fn[kk, x, fp=k dk ç;kx diyd le>u di fy, fd;k x;k gA



oL= fM t kbu d rRo

0 ; kogkfjd 10

mí';%

- ◇ oL= fM tkbuj dh i' koj çFkkvk d k le>ukA
- ◇ oL= fM tkbu m | kx dh dk; l ç. kkfy; k dk voykdu djukA

fof/k%

- ◇ v,fM; k fot|vy l nHk d ek;/e l 0; k[; kuA
- ◇ Li"Vrk çklr dju d Øe e d{kk e ,d çn'ku d ek;/e l ,d udyh xkgd çLrfr vk; kft r dh tk, xhA
- ◇ Nk= k l ,4 'khV ij ,d fd'kkj yMdh@yMd d fy, ,d Vh 'kV dh d kbi fM tkbu cuk d fy, vkj m l d{kk d fy, yku d fy, dgk tkuk pkfg,A
- ◇ d{kk dk nk ; k vf/kd d legk e foHkft r fd; k tkuk pkfg,] çR; d leg e] ,d Nk= xkgd dk vkj dN vU; fM tkbuj k dk vfHku; dj l dr g] mUg ,d xkgd çLrfr djuh pkfg,A
- ◇ mfpr r d vkj çfrfØ; k l= d ek;/e l fM tkbu d vkfpR; ij fopkj&foe'k fd; k tkuk pkfg,A
- ◇ f'k{k d dk fM tkbu@jix@fd'kkj xkgd leg vkfn dh vkj mUe[k /; ku difær çfrfØ; k nuh pkfg,A

30 Nk= k d ,d cp d fy, ç; kx'kkyk dh vko'; dr k%

lkexh vkj midj.k%

; mibdkb; k fl) k r k ij vk/kkfjr g blfy, d kbi ç; kx'kkyk 0; kogkfjd dk; l vkofVr ugh fd; k x; k g vkj bud fy, v/; k; k rFkk f'k{k d k dh exin'k d i fLrdk e çnku dh xbl v/; u lkexh vkj f'k{k. k i) fr dk vu l j. k djuk vko'; d gA gkykfd Nk= k d l h[ku d vuHko dk c< ku d fy, dN d{kkxr midj. k k dk mi; kx fd; k tk l drk gA

d{kk midj.k%

- 1- çk t i DVj ; k fd; ku (KIAN) & ,d
- 2- yxHkx 6 x 6 QhV dh l Qn LØhu & ,d
- 3- mi; ä fctyh duD'kuA



oL= fM t kbu d rRo

4- yxHkx 2 thch {kerk dk iu M'kbo & ,d

- ◊ midj.kk dh ykxr [kjhni tku oky LFkkuh; ;k vrjjk"Vh; ckkMk ij fuHkj d'rh g'A
- ◊ —i;k /;ku n' fp=k] ohfM;k ;k çLrfr;k dk lgtu d' fy, iu M'kbo vko';d g' vkj ,d i.ki Løhu ekM v,fM;k fotvy çLrfr d' fy, iu M'kbo dk fd;ku l' tkm n'A
- ◊ f'k{kdk }kjk fp=k dk lgtu vkj v,fM;k fotvy l'nHk d' fy, mUg d'kk e' yku d' fy, iu M'kbo dk mi;kx fd;k tk ldrk g'A
- ◊ f'li.kh d'kk e' dj, tku oky fyf[kr vH;k l' vkj mUkj ifLrdk dh tkp d' fy, mUkj l'dr f'k{k d' ekxinf'kd e' l'yxu g'A