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Golden Research  
Thoughts

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 depkfj; ka }kj k ftu ; kst ukvka dk fØ; kUo; u fd; k tk jgk gA mu ij fu; =a k dh dksu dgsekxh' kŰ nuk  
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 ; kst ukvka , oa muds fØ; kUo; u dh tkudkjh ; su dsu i dKj s k ; fn l oZ l ađ/kr dks gks Hkh tkrk gA rks og

i j h i f d z , k b l f y , v / k j h j g t k r h g a f d m l d s v l u ; l k i k u ; k r k s b u d s f y , v u f H k k j g r s g s ; k ' k k l d h ; v e y s l s v i u s d k s v y x e k u u s d h b u d h l a d k p h i d f r r b l g s c k / k d c u k r h g a

i p k ; r h j k t 0 ; o l F k k , d l o ' k k l h 0 ; o l F k k g s b l d h l Q y r k b u d s l n l ; k a d h l f 0 ; r k i j f u % a n g f u H k j d j r h g a i R ; d ; k s t u k d k s f o H k k x h ; v f / k d k f j ; k a d k s H k s t u k r F k k l e ; l h e k e a b l g s f 0 ; k f l o r d j k u k b u d s f y , t f v y i f 0 ; k g k s t k r h g s v k j l c l s c M h c k / k k r c v k r h g s t c ' k k l d h ; d k ; k z y ; k a l s i k l r i = k a r F k k f n ' k k f u n z k k a i j d k ; b k g h d j u k v i f { k r g k s t k r k g a v i u h ' k k s k ; k = k e a f o ' k s k : i l s ; g i k ; k f d i p k ; r d h p y , o a v p y l a f r r d k y s [ k k t k s [ k k r F k k b l d s l a k k j . k e a v k o ' ; d f o f / k o r i a t h d s c k j s e a b u d k s c g r d e t k u d k j h j g r h g s v k j H k k s r d l R ; k i u r F k k v l u ; i f 0 ; k d s c k j a e a r k s t k u d k j h j [ k u s d k i z u g h u g h a m B r k g a i p k ; r d k s k d h l j { k k } y s [ k k f u ; e k a d k K k u ] , s P N d d j k s d k f u / k k j . k i p k ; r k s e a v k ; d h o f ) v k f n , d h l e l ; k , g s f t u d s f y , ; g l e k t i w k z i s k ' k k l d h ; v e y s i j f u H k j j g r k g a , d h f l F k r e a b u d h v k k u r k t g k l w b l g s m n k l h u d j n s h g s o g h i w k z i s k ' k k l d h ; d e p k f j ; k a i j b u d h f u H k j r k H k h g k s t k r h g a e u s ; g n s [ k k f d v i u s l o k f k z d s f y , l e k t d k , d r c d k b u d e p k f j ; k a d k O k ; n k m B k u s d s f y , l n b f Q j k d e a j g r k g s v k j i w k z i s k o g l Q y H k h g k r k g a j l h n d V V k j f c y i a t h ] 0 ; ; i a t h ] o k n i a t h ] , t s M k i a t h ] c a k i = v k f n v u d , d s l a k k j . k i i = g s f t u d s f y ; s d k ; k z y ; h u d k ; Z i ) f r d k K k u c g r v k o ' ; d g s f d l r q b l K k u d k v H k k o r c H k h v k j v i f { k r l q k k j o k y k i r h r u g h a g k r k g a t c x t e h . k f o d k l } k j k r d u h d h f 0 ; k d y k i f d ; s t k r s g a ; g h d k j . k g s f d x q k o r r k r F k k d k ; Z d h e g r r k b u e a d k b z e i v ; u g h a j [ k i k r k g a

f = l r j h ; i p k ; r h j k t 0 ; o l F k k d s c h p v k i l h l e l o ; r F k k l k e a t l ; d h v k o ' ; d r k g a f t y k i p k ; r v f k o k t u i n i p k ; r d s e k / ; e l s i l r k f o r ; k s t u k v k a d k y k H k m l g h d k s f e y i k r k g a f t u d h b u i p k ; r k a e a l f 0 ; H k k x h n k j h g k r h g a e h f M ; k O k f r d s b l ; q e a o g r r j l e k t r k s l o z o f n r g k s t k r k g a f d l r q ; g l e k t b l p d k p k k l s n j v k k u r k d s d k j . k v i f { k k n r y k H k u g h a y s i k r k g a i j s f t y s d h l e x f o d k l ; k s t u k v k a d k Y k k H k , o a m u l s t m s f o r r h ; l a k / k u k a d s i d j . k e a b u d h l f 0 ; H k k x h n k j h l Q y r k d h l c l s c M h l k i k u g s v k j b l l k i k u i j p < d j j k t ; l j d k j r d i g p i k u k f t u d f B u k b z ; k a d k s o g r r j l e k t ; n k & d n k l k e u k d j r k g s m u d k s l n b p o u k s h d h r j g l k e u k d j u s d k y { ; v k f n o k l h l e k t d s l e { k f o j e k u g h j g r k g a b l d k j . k l s b l l e k t d s i r ; d l r j d s i f r f u f / k ; k r k s ' k k l d h ; v e y s i j f u H k j u t j v k r s g s v f k o k l e k t d s r F k k d f f k r i < s f y [ k s r c d s g k f k d s f [ k y k s u k c u d j [ k y u s d k s e t c j j g k s t k r s g s v k j b u d h b l e t c j h d k O k ; n k l o k H k k f o d : i l s n l j s m B k r s g a , d h n r x t e h . k f o d k l ] n f ' k o k f u d h ] i ' k a k y u ] e R L ; i k y u ] l o k L F ; l j { k k } i k s f ' k { k k } d w h j m | k s x i k n f r d v k i n k ] v k ; k f r r l g k ; r k v k f n , d s i d j . k g s f t l e a b l l e k t d s v f / k d k a k i f r f u f / k ; k a d h l o H k k f o d : f p e p s u t j v k r h g a

### I d k j k R e d i { k % &

; f n l e x z d k e i v ; k d a u f d ; k t k ; s r k s ; g r F ; i z k ' k e a v k r k g s f d l f n ; k s l s f i N M h l e k t d h e d ; / k k j k l s d v h b u t u t k f r ; k a d h f o ' k k y r k d k s n s [ k r s g g s m u d k s l e k t d h e d ; / k k j k e a t k M u s d s f y , l j d k j d k s v d s y s c M h d f B u k b z ; k s d k l k e u k d j u k i M k g l o x k A b l r j g l s b u d k s e d ; / k k j k e a t k M u s d s f y , f t u d Y ; k . k d k j h ; k s t u k v k a d k s ' k k l u u s e k / ; e c u k ; k g s m u d k s v i f { k r : i l s l Q y r k i k l r d j u s d s f y , b l l e k t d s l g ; k s x d h e g r h v k o ' ; d r k j g h g l o x k A ; g t u t k r h ; l e k t d k s v i u s d Y ; k . k d k j h d k ; D e e a c < p < d j H k k x h n k j h f u H k k u s d h f o d f l r e k u f l d r k g h b u ; k s t u k v k a d h l Q y r k d k f o d Y i g l o x k A d Y ; k . k ; k s t u k v k a d s f u e k z k r F k k m l d s m i d j . k d s f o ' k ; e a b l l e k t d s f o p k j k s i j t k j n u k v i f { k r g k r k g a ; g d k ; Z l k e k f t d l o k d s { k s = e a x s } l j d k j h l a B u k a d s e k / ; e k s d k s i k k l k g u n d j v k j H k y h H k k l r f d ; k t k l d r k g a

t g k w r d i p k ; r h j k t d s e k / ; e l s b u d s f o d k l d k i z u g s b u d h m i y f c / k d k s c n y r s i f j o s k e a

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 rd fd mlgs l ekt oKkfudks dh l gk; rk ughafeyrh gA bl 'kksk dk; Zds l anHkZea v'p; tud flFkfr dk  
 voykdu gA Hkysgh dq t q x; sgkj Ldny [kksy fn, x, gkspyrsfQjrsLdnyks, oa Nq/kNur dh chekfj ; ka  
 l si hfMr tutkrh; kadsfy, njoktk [ky x; k gA yfdu vf/kd >aVkaea Qa h tutkrh; ka dh l eL; kvka  
 dks i wkz isk gy ughafd; k tk l drk gA bu l eL; kvka dh tMs bruh xgj h gSfd blgs m[kkM Qrdus dk  
 mi k; l kekfð cukoV dseW; kaðu , oa0; ogkj kads i qztkxj .k l sgks l drk gA

udkj kRed i {k %&

tutkrh; l ekt dh l eL; kvka ds gy 0; ogkj l s fHkUu gA budh thou'kSyh ea tknwxjh ds ifr  
 fo'okl gS tks blgs Jel k/; thou l svyx dj rh gA; gkWrð fd Nf"k tS s LokHkkfod fnup; kZ ds i fr Hkh  
 budh vo/kkj .kk jgrh gSfd de egur dj Fkkð/h l h phtks dks i kus dh ykyl k gh l rksktud gA mnkgj .k  
 dsfy, [krks dks ns[kk tk; srksfNanokMk ftysea tutkrh; yksksusfl þkbZ dh l qo/kk dh vl Qyrk ds dkj .k  
 Nf"k dks gh R; kx fn; k gA l eL; k dk ni jk i gyw; g Hkh gSfd i gys l sgh vkfFkd : i l sfoiUrk >y jgk  
 ; g l ekt ; fn m/kkj ; k dtZ ds Hkkj l svxj dN iklr djuk Hkh pkgrk gS rks l q [kkj buds thou dks  
 ukj dh; cuk nrsgA ifj .kkLo: i dtZ l sgh budh thou'kSyh i q% i k Nfrð l ð k/kuks i j fuHkj gks tkrh gA  
 tgkWrð tutkrh; l ekt ea 'kSkf.kd thou'kSyh dk izu gS; g furkUr vko'; d irhr gA gSfd  
 tutkrh; vki gh f'kf{kr gkdj Lo; agh vkfne {ks=kaea fodfl r gks l dA bl dk , d dkj .k ; g Hkh gSfd  
 tutkfr; kads i fr l gkuþkfr , oal nHkko ds l kFk buds l ekt ea ifjorðu dh , d Økardkj h ykyl k Hkh gksuk  
 vi s {kr gA easus vi us'kksk {ks= ds'krykvkadh fnup; kZ dk vudkhyu dj i k; k fd f'k{kð vksj vkfnokl h ea  
 vki l h l kaatL; dk vHkko Fkka bl dkj .k l sl qko , oal j {kk ck/kd gh fn[kkA bl l anHkZea ej k n"V dks k  
 jgk gSfd i kFkfed , oaek/; fed f'k{k dk v/; ; u , oai fjos k LFkkuh; Hkk"kk esgkabl ds l kFk l kFk i kS f'k{k  
 ea vf/kd i xfr dsfy; seþs f'kyi dyk dk vk/kkj pþuk T; knk Js "dj irhr gkrk gS vksj fo | ky; ks dh

xkM tutkfr ij i pk; rhjkt dk i Hkko ¼, d OkS fDr d v/; ; u½

dk; 7 z kkyh dksbudsey thou ij gh vk/kkfjr djuk epsJš "dj i rhr gvk A  
i pk; rhjkt dsek/; e l sfn; s tkusokys i kkl kgukses tutkrh; ur; , oaeukj atu l feefyr 'kfDr  
dk , d vko'; d vks l q; ofLFkr l k/ku gks l drk gSA bl ds vfrfj Dr 'kkl u }kj k ; nk & dnk vk; kstr  
ur; , oal a q r dyk vo'; gh eW; kadu dk i u: RFkku djsk , oal kekftd l aak dks vks l q< cukuses  
l eFkZgkskA bl rjg tutkfr; ksdh vfHk: ph ds vud kj [ksy&d m ea/kutk&ck.k dk iz ksx ]nkM ]taxyses  
o{kkj ki .k ] mNy&d m tS s [ksy tutkrh; l h dfr dsi u: RFkku ea, d egROI wZLFkku j [kskA  
i Lr r v/; ; u ea xkM tutkfr ij i pk; rhjkt dk l dkj kRed i Hkko i Mk gA i pk; rhjkt ds dkj .k  
budsl kekftd l k Nfrd jktuhfrd , oavkfkd thou eafodkl kRed i f jorZu gq gA vi us vf/kdkj kads  
i fr fo'kSk : i l i pk; r puko eaernku tkx: drk , oavupku rFkk 'kkl dh; ; kst ukv kads i fr l pr gks  
xbZgA i pk; rhjkt ds dkj .k vkt budk rhoz fodkl tkjh gS rFkk vkxsc<usdh l hkkouk gA

I qko %&

tutkfr; ksdh l eL; kvks dk gy l qkkj }kj k ugh gks l drk gSA bl l anHkZ ea i gyh ckr ; g gSfd  
, s k dkbZnf"Vdks k ou vFkok cuk; k tk l drk gSft l dh cju; kn Lon kh fo'okl , oai Fkkvksdh i Fkdrk l s  
tkxr gks rnkj jkur n h jh ckr ; g gSfd bu tutkrh; es vl arkSk , oaek; h dh Hkkouk bruh cjh rjg  
QSyh gSfd os vi us dks ogn l ekt l svyx n[kus ds fy, ykpj l k i rhr gks gA bl ykpj h ds dkj .k  
vi uh 0; oLFkk vki gh djuk pkrsgS; ?kfi bu l eL; kvks ds dkj .kks dk eFku dj us ij ; g fu"d"K l keus  
vkrk gSfd tutkfr; kseamudsusRo dksc<kok nusdh i dfrR gkuh pkfg, A

I UnHkZ xFk l ph

- 1-fl l kfn; k] ; rhUnfl g , o HkVV vk'kh"K] ¼2011½ e/; i nsk ea i pk; r jkt 0; oLFkk %fofo/k vk; ke] e-i-z  
fglnh xFk vdkneh] Hkks kyA
- 2-HkVV] vk'kh"K] ¼2002½ ykdrkfu=d fodUnhdj.k , oa mHkjr k tutkrh; usRo] jkor i fcyds kUI ]  
t; i jA
- 3-frokjh] , l - ds] ¼1984½ e/; i nsk dh vkfnokl h] e/; i nsk fglnh xFk vdkneh] Hkks ky ¼eEi EEA  
4-os] ] ujsk dkj ¼ 2003½ tutkrh; fodkl ] j k/kk i fcyds kUI ] ubZfnYyhA

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