

Indian Streams Research Journal

Lkkj k&

vkt 21 0; k "krdrke/; sr&foKku gk "kCn vxnh l kekl; krhy l kekl; 0; Drhykg h i ffpri >kyssy k vkg s ekuoh thoukrhy i R; d {k=koj r&foKkukus vkd&e.k dsysys vkg s f"k{k.k gsrj ekuokusLor%; k i xrh l kBh Lor%fufelysys {k= ekuokph l fdfrd o l kekftd i xrh R; kus?kryy; k o ?kr vI yV; kf"k{k.koj voycau vI rsR; keGsgsf"k{k.k {k= r&foKkuki kl w cktlyk dl sjkg.kkj\



Ekkfgrh r&foKku % vFkZ o Lo#lk egknø gkuey/s

i kpk; Z] Jh foBBy f"k{k.k"kkL= egkfo | ky;]oskuxj
rk- i&jij ft- I kyiij-



i Lrkouk&

ek= vxnh vkt l qnk "k^gkf.kd r^afoKku Eg.ktsf"^k(k.kkph fofo/k r^a fofo/k i d^lkjh ph n'd Jk0; ek/; e^j v/; u v/; ki u dk; Zhrhj eW; eki u r^as bR; knhpk i/nr"khj okij ,o<kp vFk^l d^lyk tkrks ij^awi R; s^lke/; s "k^gkf.kd r^afoKku gh f"^k(k.k {ks-krhy , d Lora= "kk[kk Eg.kw foofl r gkr vkg^s fofo/k {ks-kef/ky l d^lYi ukpk vlf.k mi ; kst ukRed ckchpk R; ke/; sl eko^s gkr vkg^s; ke/; sd^lG ; a^zsvkf.k r^asukghr- ; kl kBh i fke r^afoKku ; k l d^lYi upk vFk^l i kg.ksxj t^zpsvkg^s

ra=foKku vFkl

Technology gk bæθ h "kɒn Technic + Logous ; k "kɒnki kl ɯ r; kj >kyk v l ɯ Technic ; k "kɒnkɒk v fkl Art & dyk fdøk Skill & dlskY; v l k gksks Logous Eg. ktsvH; kl - fofo/k dyk dlskY; s; tɒpk vH; kl Eg. ktsra; foKku- gk vfkzr=foKkuP; k [kkyhy 0; k[; kɒ#u vf/kd Li 'V gkbly-

Technology is set of Instruments and skills which are used to satisfy the needs of community (Dictionary Meaning)

community (Dictionary Meaning)
I ekT; k xj tk I keF; I old Hkxfo. ; kl kBh th I k/kusfdøk dk&kY; soki jyh tkrkr R; kpkl p Eg.kts
ra;foKku gks -

Application of specific knowledge to practical purpose is technology (Dictionary Meaning)
 oKlfud Klukpk 0; kogkfj d mi ; kx Eg. ktsra=foKku- dkskrgh r= Eg/ysdh] R; kyk nkus cktwvI rkr-
 ifgyh cktwEg.kts ; = fdøk , [kñnh uohu dYi uk vlf.k nq jh cktwEg.ktsrs ; = vxj rh dYi uk okij . ; kph
 i/nr- r=foKkups os'k'V; sEg.ktsR; kef/ky ekfgrh l krR; kuscnyr} v[KM I åkkukukeGsR; k ekfgrh/e; sHkj

i Mrs R; keGsr sx freku vI rs
; k r=foKluke/kw vuud i zdkjP; k ; a=kpk "kksk ykxyl- R; ki Sdh dksdk. krh ; a=sf"k{k.k i fdz k l gyHk o
i fJ. kkedkj d d# "kdrkr ; kpk fopkj rTKe/; s>kyk- ; krup "k{k.f.kd r=foKku kpk mxe >kyk-
"k{k.f.kd r=foKku kEk/; sf"k{k.kkrhy r=foKku o f"k{k.kkpsr=foKku ; k nkqkpk l ekošk vkg

f' k{k. kk rhv ræf o Kku

; ke/; s v/; u u v/; ki u i fdz k i f j .kkedkj d gks ; kl kBh t h fofo/k ek/; es oki jyh tkrkr R; kp k l ekošk glrks mnk njn'klu] fogMkvkj l ak.kd] fofo/k i ddkjph i {ksir o vi {ksir ek/; es i R; sd ek/; ekl kBh gkMbsv j vlf.k l kDvovj v l rs i R; {k , [kkns mi dj .k Eg.kts gkMbsv j & m/o'kh'kZ i {ksi d] LykbM i {ksi d] fogMhvksd b k j Vsj dkmj br; knh- ; k mi dj .kke/; si R; {k ekfgrh fnxh'kukl kBh tsI kfgR; oki jystkrssrsEg.kts R; k mi dj .kkpsl kDvovs-j-

"k{k.kd r=foKukP; k fodkl ke;/; sl #okrhP; k dkGkr ; k mi dj .kkdMp tklr y{k ijfoysxsys i jrq
urj f"k{k.kr=KkP; k fopkjte/kw vl gh fnl u vksy dh] v/; ki ukph] v/; ; ukph rI p i f"k{k.kkph i fj .kke
dkj drk ok<ok; ph vl y rj døG fofo/k mi dj .kkpk mi ; kx egRokpk ul u R; krhy i R; d ekuoh ?KVdkuh
dksKR; k rRokpk fdrh o dI k fopkj dsyk vksy gsnf khy egRokpsvks

'k^gkf, kd r^a=foKku

, d^wk l ^awk^v/; u & v/; ki u i fdz ph i f^j. kk^ed^jdrk ok<fo.ks ; k^l kBh "k^gkf.kd r^afoKku Lor[%]ph
kk^fiedk c^tkor v^l rs qh i f^j. kk^ed^jdrk ok<fo. ; k^l kBh [k^yky h^em d^sy/; k ekx^lbk voy^c dj^kok y^xrk-

v- v/ ; ukph xqkoRrk ok<fo.ksfdok i |||okpsi ek.k ok<fo.ks
c- vi f{kr / ; s l k/ ; dj. ; kl kBh fdetu oGpk mi ; kx dj. ks
d- v/ ; ukph xqkoRrk deh u gkm nsrk tklrhr tklr fo | kf
M- xqkoRrsv ck/k u yk krk fdier deh di. ks

f'k{k.kkP; k ræfoKkuke/; s ; kp mi i Rrh] rRoʃ fu; e o fl /nkr ; kp k l ekošk gkorʃ ; k nf'VdkukeGs v/; u & v/; ki u i fdz B; k i fj .kkedrl mkkir ; akk&; k l ekL; k fuj kcdj .kkl kBh i z kkyh mi kxe dl k oki jk; ph qsh l i 'V dirk : ss

'Wkf kd ræfokku d i z kkyh

i z kky zhphh oF' k"V: s

1-i z kkyhe/; svuđ ?Vd o mi ?Vd vI rkr- R; k I oz?Vd mi ?Vdkpk i jLi jkakh fdz, kRed l cak vI rks
2-i z kkyh oh Lki ckl l dVi uk ykas dks krhah i z kkyh pd & : k i z kkyhph mi i z kkyh vI w"kdrs

2-iz kkyh gnt r kqk luytuk vrgs
3-iz kkyh cfnl r fdok [kkyh yl] r

3-izkkyi carri taabk Engii VTTs
4-izkkyi dks krsi ik dks krsi / : s xkB : kl kBh dk: Jr vI rs

'kɒkf kɒf ræfəKkju:kP· k ə· k ə· k ə·

v/ i u & v/ i u k

v1,, u & v1, k dphn p1). Medjydk r o lmo okto., k kdm mle-II, krd vll.k v1,, qm kdi vko"; d i fjfLfkrhP; k ekfgrhpk mi ; kx Eg.kts"lqkf.kd rafokku gks -

Educational Teachonology is application of scientific knowledge about learning and conditions learning to improve effectiveness and efficiency of teaching and learning.

T; kiz kkyhefsvl; ; u vf/kd xfreku gks;r l p th i z kkyh v/; ; u l kis i f j .k k e d k j d] F vdkm vf k. k cg0; ki h d j r s rh i z kkyh Eg.kts"K kf. kd ra=foKku gks -

Eg. kts"kskf.kd rä=foKku gks -

vupšukph i fj. kkedkjdrk ok<fo. ; kl kBh ekuoh v/; u vlf.k l ásk.kkp; k l ákkukkoj vkl/kkfj r
ekuoh o Hkkfurd l fjo/kkps, d=hdj.k d#u mf | 'Vkf/kf'Br v/; ki ukph o l áwkz v/; u i fdz ph "kkL= "kdn
i /nrhusekM. kh dj. k\$ rh dk; Eor dj. ksvlf.k frpsel/; eki u dj. ksEg. kts"kskf.kd r=foKku gks -

ojhy 0; k[; kp[kopkj djrk "kQkf.kd r=foKukpsi qhy rhv vFkZLi 'V gkskr-
 1-HkLfrd" "kL=s o vFhk; k=dh foKku ; krhy Kukpk okij dj.ks Eg. kts "kQkf.kd r=foKku , o<hps "kQkf.kd
 r=foKukph 0; klrh l k/kkj .kr%1960 i ; z fopkjkr gkskr-
 2-fofo/k i zkkjP; k oKkfud rRokpk okij "kQkf.kd r=foKuke/; sgksks
 3-f"k(k.k vfk.f i f"k(k. kke/; si z kkyh mi kxekpk okij Eg. kts "kQkf.kd r=foKku gks -

"k^gkf.kd r=foKku gh , d 0; ki d l dYi uk vkgs R; ke/; si ke[; kus1- f"k{k.kkrhy r=foKku 2- f"k{k.kkps
r=foKku ; kpk l ekošk gksrkf"k{k.k i fdz k vf/kdk vf/kd pkayh gks ; kl kBh fofo/k l kfG;] rRo} fl /nk;r ; kpk
d1 k] d/kh] dkBsokij djkok ; kpk "kkL="k^gn i /nrhusopkj "k^gkf.kd r=foKku/; s; rks

'k^gkf.kd r^afoKkukph mf | "Vs

1-f'k(k.kkp h /; s § vkdrlhcalk o l j puk fuf'pr dj .ks
2-f'k(k.kkp h i z kkyh fuf'pr d#u frpsmi ; kst u dj .ks o ; k i z kkyhpselV; eki u dj . ; kph 0; oLFkk dj .ks
3-f'k(k.kkp k nt kmpko . ; kl kBh] i z kj dj . ; kl kBh o l eL; k l kmfo . ; kl kBh uohu ræ§ l kku§ i z kkyh vknhpk
"kk&k ?ks ks

4-v/- ; u i fdz pk ox ok<fo.ks
5-v/- ; u i fdz k vf/kd vFk^l w^lzo gsr^lwk^lcufo.ks
6-dks kR ; kgħ r-akpkj rRokpk i w^lkg foj fgr n^lVdkukru oki j dj.ks

'kqkf.kd ræfoKkukph 0; klrh o egRo

"k{k.kkph /; \$ so mf | 'Vsuf"pr d#u rh l k; sdj .; kl kBh fofo/k ; } r=ekx} i /nrh bR; knhpk "kksk
?ks k\$ R; kpH i fj .kkedkj drk rikl .ks o eV; eki u dj.ks ,o<h 0; ki drk "k{k.f.kd r=foKku ; k l idYi ue/; s
I kekoysyh v1 Y; kus"k{k.f.kd r=foKku psegRogh cq@; ki d vkgs

1- "k_gkf.kd r_afoKkukP; k l kgk; kusi lkoh f"kd r; kj djrk ; rks
 2- "kkys fo | kf; kp; k v/; u & v/; ki ukrhy l eL; k l kmfo.; kp; k n'VhusoKkfud fopkj i fdz; k d"kh djk; phl
 dklskr; k i dkjP; k l eL; kd kBh dklskr; k r_apk] rRokpk o ek/; ekpk] dl k o fdrh i ek.kkr oki j djk; pk gs
 "k_gkf.kd r_afoKkukeGsf"kskdkl dGw"kdrs

3- "ksk. kd ra foKkuengsy:/ ; u & v:/ kiu u i fdz k yf/kd i fi . kkedkid akrs

3- kqñ.ka f-foKkukcBv/; , a & v/; kru Hk; f vñd fij. meñg a gis
4- "kLkf. kd r-foKku l oñ ekoškd v l Y; kusl kelft d "kL=so Hkksrd foKkuke/; s; ke/; sl ekok; l k/kyk tkrks
5-dls kR; kgh {ks=krhy uohu cnykpk i fj. kke r-foKkukoj gkrs R; keGscnykR; k l kelft d xj tkuq kj ekB; k
oxkL kBh v/; ki u r-} uohu vupšku i /nrhj Lo; a v/; ; u r-} cgq l ñnd v/; ki u bR; knh ckchph Hkj
f"k{k. kfs=ke/; sr-foKkukeGsi Myh v kqs

6-1 àžk.k r=foKkuke/khy i x rheGsekBh Hkj "kškf.kd r=foKkuke/; si Myh vkg
7-Nikbzr=foKku] i x.kd foKku] fmftVy Qkl/kskQh foKku bR; knhP; k i x rhpk "kškf.kd r=foKkuoj i fj .kke

gksnu v/; u & v/; ki u l kexliph I e/nh I krR; kus ok<rs vkgS gh l kexh] f"k{kld & fo | kF; k; i fJ. lkedkj dfjR; k i kgkpfo.; kpselxzh "k{kf.kd r=foKukeGsmi y/c/k gkr vkgS-
8-n&fmu f"k{k.k i fdz e/; svH; kl de jpukl eW; eki u] i f"k{k.k] 0; oLFkk u; k {ks=kE/; s l krR; kusuosmi de

19.3.2. *Uj*, ..., *Uk*, *Up* = 12.1.

"k^gkf.kd r^afoKukpk fodkl
"k^gkf.kd r^afoKukP; k fodkl kpsVI i segRokpsvkgr- I kkj .kr%1940 P; k I ejkjkI I ejg I ázk.kkl kBh
j^gMvk^gnij^gklu ; kpk okij I #>kyk- i jrw; k dk; zdeke/; si R; khkj .kkph derjrk vI Y; kus; k i z ksckuk Eg. kkos
rl s; "k i klr >kysekgh- rjh n^gkhy v | kfj vlf pkfjd vlf. k vuks pkfjd f"k^gk. kke/; sj^gMvk^gksvkf. k njn"klu ; kpk

oki j dj kok- ; kl kBh dks krh "kQkf.kd l k/kusvI kohr gk fopkj "kQkf.kd r=foKku/; sl # >kyyk fnl w ; sks
20 0; k "krdkP; k vk[ljh i kl w l a.kd vlf.k ekfgrh r=foKku ; kpsegktky i i j. ; kl l #okr >kyh
vkrik "kQkf.kd r=foKku gk ekfgrh r=foKukpkp , d Hkx ekuyl tkrik l a.kd] l HMh jkW] l MDVosj ; keGs
i pfyr vks pkfjd oxkpsLo#i cnyrsvkgs r=foKukP; k ixrhpk gk vfire Vli k vkgsth i qsvk.k[kh dks krh
dhrh nMyh vkg ; kps mRrj QDr Hkfo'; ldkGp nm "kdsy- ek= vki .k gs nfhy y{kkr Boys i kfgts dhj
f"k{k.kkph xqkorrk ok<fo. ; kl doG r=foKkup dj.kkllur ul rsrs r=foKku f"kd d"kk idkjsgrkGrks gs
egRokpsvl rs R; keGs"k{k.kkph xqkorrk gsekuoh dkSY; so r=foKku ; kps , df=r Qfyr vkgsvl p eukos
yky.

I nHkz

1- "kQkf.kd r=foKku vlf.k ekfgrh r=foKku & l a.kd Mkk hek ; oys