Gtparpay;
11 k; tFgG

myF 1 - Gtparpayd; mbggi lfs;

mwpKfk;

- "Gtparpay; gwwpa gbgG vdgJ epytiugljjpy; css ,lqfis epi dTr; nfhs;tjwFk; NkyhdJ. ,J cyfpd; rpffyfis GhpeJ nfhs;tJ kwWk; fz ,lqfSffpi lNa fhZ k; NtWgl;1 fyhrrhuji j NghwWjy; MFk; Kbtpy; ,gghl;k; NtWghLfi sf; fi sj;J kffi s xdwpi z ffg; gadgLk; XH; mwpthFk;

- ngUkghyhd mwptpay; ghl qfspd; %y Mjhukhf Gtparpay; tpsqFtjhy; ,J 'mwptpayfspd; jha' vd fUjggLfpwJ. ,J mdwhhl tho;tpy; mjpfk; gadgLk; ghl khFk; gw mwptpay; ghl qfs; r%fjjpy; Kffpa ,ljij gpbjjUfFk; Nti sapy; rkgfhyjjpy; cyfpd; gy ehLfspy; Gtparpay; gpd;DfFj; jssgglbUffpwJ. xU mwpthsp E}yfjjpd; kjpgigg; GhpeJnfhs;tijg; Nghy> xU epji ahsh; gz jjpd; kjpgigg; GhpeJnfhs;tijg; Nghy> ngwNwhh Foei jfspd; kjpgigg; GhpeJnfhs;tijg; Nghy xU Gtparpayhsh; Gtpapd; kjpgigAk; mJ ekfF toqFk; tsqfisAk; GhpeJnfhsfpwhh;

- **Gtparpay;** mwpT Fi wthf css xU r%fk; ei lKi w cyfpy; KbT vLfFk; gyjijAk; mjpfhuji jAk; ntspggLjj KbahJ. vdNt> Gtparpd; kJhd mffi w kwWk; ghJfhggwFk;> xtnthU ehlbd; tshrrp kwWk; Nkkghl;bwFk; kwWk; kdpj nrayfSld; njhlhhGila gurrpi dfis Fi wggjwFk; Gtparpai yg; gwwpa mwpT kpfTk; mtrpakhFk;

- ,ejr; #oypy> mnkhpff lffpa ehlbd; Njrpa Gtparpay; rqfk; "rpffyhd cyifg; GhpeJ nfhs;sTk;> ekJ Kbtfs; gwiu vt;thW ghjppfpdwd vdgij tskpff NtWgl;1 cyfpd; xUqfpiz gi gg;

Ghpe;Jnfhs;S k; ti fapy; Majjkhf ,UggNj Gtpapay; fy;tp" vd ti uaWf;fpwJ.

· ,ej myF> Gtpapay; ghlk; flej fhyjjpy; mi lej tshrrp> mjd; nghUslffk; kwWk; mjpy; Vwgl;l khwwqfs; kPjhd mbggilia khz thfSff mwpKfk; nrafjpwJ. ,J fbffz;l myFfspy; tpsffggl tpUffk; Gtpapai y Ghpe;Jnfhs;S k; ,awGtpapay; kwWk; nrayKiw jpwd; gwwpa mwpTf; fjTfi sj; jpwffpwJ.

Gtpapai y tiuaWjjy;

· Gtpapayc yfpd; kpfj; njhdi kahd Gtp mwptpayfSs; xdwhFk; Gtpapay; fUj;Jfffspd; Mukgk; fpNuff; jj;Jttpayhsh;fspl kpUe;Jjhd; njhlqfpaJ. vulNl hnj dp];(Eratosthenes) vDk; fpNuff; mwpOh; Gtpapay; vdw nrhyi y tbti kjjhh; fpNuff; nkhopapy; 'Gtp' vdg nghUsgLk; '[pNah'(Geo) vdw nrhyi yAk> tpthjjjy; vdgnghUsgLk; fphgpd; (Graphien) vdw nrhyi yAk; ,i z j;J Gtpapay; vDk; nrhyi y c Uthffpdhh;. vdNt Gtpapay; Gtpi a tpthpffFk; xU ghl k; vdyhk; fhy tshrrpapy; GtpapayhdJ Gtpd; ,aw jdi kfs; kwWk; kdpj ,dk; vt;thW Gtpd; jdi kfNfwg khwpf; nfhz;L Gtpi aAk; khwwp tUfpdwJ vdgd Nghdw fUj;Jffi s vLj;Jiuf;Fk; xU fiy kwWk; mwptpay; ghlkhf c Ukhwp te;JssJ. Ma;Tggaz k; kwWk; Gjpa fz ;lqfi sf; fz ;Lgbggjd; %yk; Gtpapay; gpwejJ. KdG Gjpa epyggugG kwWk; fly; topi af; fz;Lgbj;J epi ytiuglk; jahhpj;J mtwiw tpsf;FtJjhd; Gtpapayd; Nehffkhf ,Uejj. gpddh; Gtpapay; Gtpd; epyjNj hwwqfs> Nguhopfs> tspkz ;yk; Fwjj mwptpay; ujpahd fUj;Jffi sAk> kdpj ,dk; Gtpr; #oypy; VwgLjJk; khwwqfi sAk; typAjjj; njhlqfpaJ. Gtpapayd; fUj;JffSk> mtwiwf; fz;lwpAk; KiwfSk; mbffb khwpnfhz ;Nl ,Uffpdwd.

RUffkhf $wpdhy; GtpapayhdJ

v gd;Kfjjdi k nfhz ;lJ.

v Gtpd; NfhsqfspYk> Nfhsqf;SffF ,i lNaAk; css njhlhGfi sAk; Fwpj;Jg gbggJ.

v jfty; jpul;Ljy; kwWk; Majy; %ykhf epytiuglqfisAk> fhl;rp glqfisAk; c Uthf;Ftjpy; Gjpa cjjpfi sAk; fUtpfi sAk; nraygLj;Jjy;

v RwWr;#oy; kwWk; kdpjg; gurri dfSff epi yahd jhT fhZk; nray; vd tiuWffyhk;

Gtpapaypd; kuGfs;

- Gtpapaypd; tshrrp ez ;l tuyhwi wf; nfhz ;lJ. rpy Kei ja Gtpapay; MaTfs; ehyhapuk; tUlqfSfF Kwgl;li t. gz ;i la Ma;thshfs; ez ;l gaz k; nra;J Gjpa epyggFjpi a ti uglkhf;fpdh; 600 ngh.M.K. ghgpNyhdpah;fshy gadgLjjgglll fspkz ; tpyi yr; rhcdWfs; jwNghija mfo;thuharrpapd; %yk; cyfpwF ntspf; nfhz uggl;LssJ. mejf; fhyfl;jjpy gz ;i la fpNuff mwpQh;fshy; Gtpapaypd; mbggi lAk; njhl ffKk; VwgLjjgglll;hYk; gpei ja mwpQh;fshy; etd Gtpapaypd; J}z ;fs; epWtgglll d. fpNuff mwpQh;fspy Kjdi kg Gtpapayhsh;fshf Fwpgglljjffthfisf; $wyhk; mth;fSs; n` NuhNl hl];
(Herodotus), jhy] ; (Thales), mhp] ;l hl by; (Aristotle)»vul Nl hnj dp] ;
(Eratosthenes) NghdNwhi uf; $wyhk; gpd;dh> Nuhkhd;ah> mNugpah> , ejpah> rpd; gpuhdR ehl ;l hfs> n[hkhd;ah> MqfNyah; kwWk; mnkhpff Gtpapayhsh;fs; Gtpapaypd; tshrrpi aAk; fUj;Jr; nrwpi tAk; NkkgLjjpdh;

- Gtpapaypd; ghpz hk tshrrpapy; mjd; mZ FKi w> jjJtk; kwWk; nrayKi wfs; nghpa khwwj;JfF csshapd. GtpapayhdJ xU nghhUs; vqNf»vtthW Vd; mi ke;JssJ Nghdw fUj;Jf;fis tpsffp Kei ja epyti u glqfi sg gadgLjjp GtpguggpY VwgLk; epyoTfspd; , lqfi sAk> epyoT mi kgGfi sAk; mjwfhd fhuz qfi sAk; fz ;lwpwpwJ. mt;thW fz ;lwpaggll;l mi ktplqfs> epyjNjhwwk> kffsnjhi f> kwWk; tptrhak; Mfpatwwpd; mbggi lapy; tpsffggll;l.

Gtpapaypd; tshrrpi a %dW epiy yfshfg; ghpffyhk; mi tahtd>

Ø fz ;Lgpbgg Gffhyk; (ngh.M. 1400 Kjy; - 1800 ti u)

Ø 1800 Kjy; 1950 ti u

Ø 1950 f;F gpei ja fhyk;

fz ;Lgpbgg fhyk; (1400 – 1800)

- , ffhyffl;ljjpy; Gtpapaypd; fUj;JffSk; nray; ti ffSk; KOi k ngwhky; xU fUtpd; Njhwwk; Nghy; , Uej J. , ffhyf; fl;khdJ Gjpa epyggugGfi sf; fz ;lwpjwF th] ;Nfhl fhkh> fpp] ;Nl hgh; nfhykg] ; NghdNwhhd; ntwwpg; gaz qfs; nghpUk; cjtpahf , Uej d. I Nuhgghtpd; gy ehLfs; , ffhyf; fl;lj;jpy; Gjpa epyggugGfi sf; fhz j; jqfSila vz z pyqfh gaz qfis; njhlhqfpd , jNjhlyfs; eprrakhf ngUk; nry;tqfis; nfhz ;L tUk; vdgjhy; mjwfhd epyj;jhwwqfs> kdp thotplqfs> gaz g; ghi jfs; NghdWtwi w csslffpa Gjpa epyti uglqfs;

cUthf;fggl;ld.NtNudpa]; jhd; fz;l Neubj; jfty;fisAk;
Kjdik msTfisAk; Gtpapaypy; Gjpa fUj;Jffisg; GFjj;
gadgLjjpdhh; Rkhh; E}W Mz;LfSfF ,jjifa FwpgGfNs
Gtpapaypd; tshrrpfFg; nghpJk; cjtpd.

1800 Kjy; 1950 ti uapyhd fhyk;

- ,ffhyffl;ljjpy; jdpggl;l jj;Jttpayhshfspd; gqfspgghy;
  Gtpapaypd; NehffkhdJ thptilejJ. Gtpapaypd; clfUj;Jffs;
  jdpjJtk; ngwj; njhlqfpd. lNuhggh kwWk; mnkhfffhtpy;
  GtpapayhdJ typ kahd KdNdwwjijjf; fz;lJ.

- ,ffhyfl;ljjpy; Gtpapaypd; NkkghlbwfhfG gy rqfqfs;
  Njhdwpd. kdpj kwWk; ,awGtpapaYfF n[hkdpapd; mnyfhz;lh;
  thd; ` kNghyl; fhuy; hpflh; gunlhpf; ulnry; Nghdw mwpQhfspd;
  gqfspgG KfffpakhdJ. 1844 y; ` kNghyl; ntspapl;l fh]Nkh];
  (Cosmos) vDk; E}y; ,awGtpapai yAk; epytpai yAk; Ma;T
  nrafpwJ. ,eE}y; Gtpapay; gqfspggpy; Xh; i ky; fy;yhf ,dwsTk;
  fUjggLfpwJ.

- kdpj DffFk; RwWr; #oYf;Fkhd njhlhpgpid tpsf;Fk; ,U
  rpejjidg; gsspfs; Njhdwpd. mit RwWr; #oy; ,awif
  KbTfnfhsif kwWk; Njh;T Kjdik kfnfhsif MFk; RwWr#oy;
  ,awif KbTfnfhsifapd; Mjuthshfshd nkffpejh;
  (Mackinder), vyd; nrkgps; (Ellen Semple), ` z bqld;
  (Huntington) NghdWNwhh; RwWr#oy; fhuz pfSk; VwgLk; khwwqfSk;
  kdpj ,djjpd; nrayfisj; jhknghfpfpdwd vd ekgpdh; gy
  tsheJ tUk; ehLfspy; kdpj ,dkhdJ ntssk> twlrp> gQrk;
  epyeLffk; NghdW ,awif NguoopTfshy; ghjpffggLfpdwJ.
  ,jjifa #oyfspy; kdpjd; ,awiffF mbikahfpdwdhd;
  ehNlhb tpyqF tshgG ,awif KbTf; nfhsifffF xU rpwej
  cjhuz khFk; ehNlhb tpyqF tshgG KwwYk; RwWr#oy;
  rhhejjhFk;

- tpl by; b yhgpshr; Nghdw Njh;T Kjdik kf; nfhsif Mjuthshfs;
  fwWr; #oy; vdgj kdpj thoj tf; flLggLj;Jk; xU fhuz pNa
  mdwp jhknfhpfFk; $W myyy vdw fUjjpid typAWjjpdhh; NkYk;
  kdpjd; ,awif r; #oypy; VwgLk; rpffyfisf; fisa NtW khwW
  topfisf; fz;lwptJld; mtd; mij nraygLjj vLf;Fk;
  KbTfNs kdpj thoj j; jhknfhpfpdwd vdwdh; kdpjd;
  RwWr#oi y khwwp mij kj;J kpf ntggkhd kwWk; Fspej #oypy;
  $l thofpdwhd; ,]Nuhy; Nghdw kpf ntggkhd ehLfspy; Fi wej
  ki o> kpFej ntggk> tskpyyh kz ; Nghdw #oyfisj; jhz b
  thoeJ nfhz bUggjj ,jwF xU rpwej vLj;Jffhl;lhff; $wyhk;

1950 Mk; Mz ;Lf;F gei jafhyk;

- 1950-Mk; Mz ;L ti u> GtpapayhdJ mDkhd Ma;Tk; (kpfr; rhpahd jftyfS k; , yyhj> rhjhuz fsjjftyfs; mbggi lapyhd xU fi ygghlkhfNt , UeJ tejJ. 1950 fspy> GtpapayhdJ mjd; $Wfis tpsff Gjpa tjjpfis tFj;Jfnfhz ;L KdNdwwki lejJ. , ttjjpfisg; gadgLjjp vjhfhy epfo;Tfi sf; fz pffyhk; mt;ti fz pgGfs; rhpahf , UfFNkahdhy; vjhfhyjjpy; GtpFk> kdpj Fyjjw;Fk; vjphf epfof$ba jhffqfi sf; Fi wfpj;jpl;lkpl yhk;

- , ffhyfl;ljjpy; Vwgl;l Kffpa KdNdwwkhf , awi f kwWk; khdpl mwptpaypy; mstL Elgqfspd (Quantitative Techniques) gadghl ;i lf; $wyhk; Elgqfs; vdf; FwggpLtJ gyNtW Gssp tptu %yqfshd> epyti uglj;jftiy> fsggz pj;jfty> Nrhji i dr; rhi yfspy; ngwggLk;jfty; Mfpatwi w xUqfpi z jjy; MFk;

- mstLg; Gulrp (Quantitative Revolution) Gtpapai yr; fwgjwfhd Gjpa njhlffkhf mi kejJ. Gssptptuqfs> fz pjr; rkdghLfs> ephz a khjpqfs; (Deterministic Models) Mfpatwwpd; gadghli l mstLg; Gulrp mjpf mstpy; <LgLj;Jfpdwj. ngUkghyhd Gtpapayhshfs; vOj;Jffi s tp; vz fNs kpfg; nghUjjkhdJk; mwptpay; rhhejJk; vd ekgpdh; glnkhlapYk> fhl rpf; FwggilbYk; rpwej epyti uglk; xU Kffpa Gtpapay; fUtpahfj jpfoejJ. jwNghJ njhi y Ez ;Z zh;T> Gtp; jfty; mi kgG> fz pdp nkdnghUs; NkkghL Mfpatwwpd; Nkyhd cjtpAld; epyti uglj; jahhpgG vz ;Ki wapdhy; (digital) vsp jhfptpl lJ.
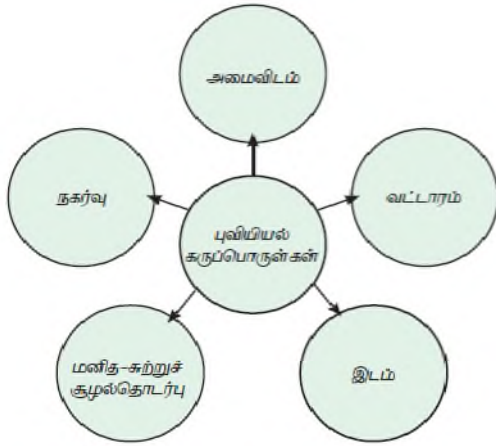
Gtpapayd; fUgnghhUs;fs;

- vej xU ghljjpwFk; Fwpggpl 'l kuGfs; czL. mkkuGfi sf; nfhz Ljhd; mwpQhfs; ghlf; fUjijj; jahhpj;J tof;Fthhfs; , ej ti fapy; Gtpapay; ghlKk; Fwpggpl 'l kuGfi sf; nfhz LssJ. mtwi wg; gwwpf; ftdkhf fhz Nghk; 1963 y; tpyyPak; b NglPbrd; vdgth ehdF Gtpapay; kuGfi sg; Gtpapayd; Kffag; nghULfshff; fz ;lwpejhh> , ejj; jdpjJtk; thaej Gtpapay; kuGfshtd: gugG rhh; kuG (epyggugggpd; guty; kwWk; ti ffs; - v.fh. kffs; , lgngah;T)> , lk; rhh; Ma;T kuG (, lqfspd; gbepi y> rppa mstpyUeJ nghpa mstwF)> kdj; d - , lk; rhh; kuG , i lNaAss njhlhhG) kwWk; Gtp mwptpay; kuG (Gtppd; nray; Ki wfs).

- Kffag; Gtpapay; kuGfi sf; fz ;lwpejJ Nghhy> , gghljjpwF FwggpLjjff fUgnghUl ;fS k; fz ;lwpag; glLssd. mnkhpff Gtpapayhshfs; rqfk; leJ Gtpapay; fUgnghUl ;fi sf; fz ;lwpeJssdh; , J cyfpy; css mi dj;J GtpapayhshfshYk;

VwWf; nfhssgglhJ. ,ej IeJ fUg; nghUs;fshtd: mi ktplk>
,Ik> kdhj RwWr#oy; njhhhG> efhT kwWk; tllhuk;
Nghdwi tahFk;

Gtpapaypy; IeJ fUgnghUI;fs; cssd. Gtpapai yg; GhpeJ nfhss
cjTk; xU fUtp Gtpapapd; fUgnghUs; MFk; ,J 1984k; Mz;L
mnkhpff Gtpapayhsh; $llikgggy; VwWf; nfhssgglL Njrpa
Gtpapay; rqfjjpYk; Gtpapay; gbgGffhd mnkhpff Gtpapayhsh;
Gtpapay; ghlf;i fNalbYk; ntspapl gglLssJ.

Gtpapay; fUgnghUs;fs;

mi ktplk;

Gtpapy; css Xh; mi ktpjij ,uzL ti ffspy; tpthpffyhk;

1. Jyypa mi ktplk; ,J xh; ,ljjpd; mlr kwWk; jhff Nuiffspd;
%ykhf tpthpffggLfpdwJ. vLj;Jf;fhlyhf> nrdi d nrdluy;
,uapy; epi yajjpd; Jyypa mi ktplkhdJ.

12° 04' 56' tlf;F mlrNui f kwWk; 80° 16' 32 fpof;F jhffNui f
MFk;

2. xgglL mi ktplk; ,J xU njhhej ,ljjpypUeJ ehk; FwpggpLk;
,Ik; vjjpi rapy; vttsT J}ujjpy; mikeJssJ vdgijf;
FwpggpLfpdwJ. vLj;Jf;fhlyhf> fyyiz ahdJ nrdi d efhpypUeJ
Rkhh; 350 fp.kP J}ujjpy; njd; Nkwfpy; mikeJssJ.

,Ik;

· vyyhhtwiwwAk; jddfjNj nfhzLss xU gFjpi a ,Ik; vd
ti uaWffyhk; mi djJ ,IqfSk; gw ,IqfSy; ,UeJ
NtWgLjjpf; fhlLk; jdpj;Jtj; jdikfisf; nfhz bUffk;
guqfpki y Gdpj [hh;[; Nfhli il> kpd; (m) [hh; efh Nghdw
jkpoehlbd; gFjpi s vLj;Jf;fhlhff nfhssyhk;

, lg;ngah; - ερyj Nj hwwq;fspd; mbggi lapy; c Uthd Xh; , ljjpd; ngah;

Fwpapl k; - efh> flbl k> epi dTrrpd;dk; Nghdwi t mi ke;Jss xU gFjp

#oepi y – Xh; , ljjpd; , lti kgGk; mji dr; RwwpAss gFjpfS k;

kdpj – RwWr#oy; njhlhG:

- , ffUgnghUshdJ> kdpj d; #oepi yAld; vt;thW nraygLfpdwhd; vdgi jAk; kdpj nrayghLfs; #oepi yi a vt;thW khwWfpwJ vdgi jAk; tpthpffpwJ. , ji d %dW Kffpa NkwNfhs;fSld; mwpapayhk;

1. rhhGepi y: kdpj d; vt;thW #oepi yi ar; rhheJsshd; (v.fh. jz zh> fhwW)

2. xj;JgNghj y; kdpj d; vt;thW #oepi yAld; xj;JgNghfpdwhd; (JUt kwWk; ghi y epyqfspy; thofpi f)

3. khwwai kjjy; kdpj d; vt;thW #oepi yfi s khwwai kffpdwhd; v.fh. epyjjpbg Gif tz bg ghijai kjjy> ,] Nuy; ehlbd; tptrhak;

, lgngah;T

- kffs> nghUl;fs> fUj;Jffs; Nghdwi t xhplljpy; , Uej kwNwhh; , ljjpwF , lkngaUk; ti ygddiy yNa efhT vdf; $WpNwhk; v.fh. fpuhk – efu , lgngah;T> nrdi dapYss ngUefu njhlhtjz bggaz k> thd; gaz k> Nghf;Ftuj;J , iza nrajpg ghpkhwwk; Nghdwd.

tlh;huk;

- tlh;huk; vdgJ xUkpj j jdi kAi la xU gFjpahFk; v.fh. fhyepi y (gUtf;fhwW kz;lyqfs) jhtugfs; (ntggkz y kiofhlfs) gahfs; (mnkhfhhtpy; Nrhsk; gahLk; gFjp) njhopwhi y (ngqf@U – X#h; njhopykz ;lyk).

Gtppapa Yf;Fk> , aw; kwWk; r%f mwptpaYf;Fk; css njhlhGfs;

- Gtpapapd; rpy ghpTfs; fz pk> RwWr #oy; mwptpay; Nghdwtwld; xU typ kahd , iz gig nfhz ;Lssi j Gtpai y ti uaWf;Fk; NghJ fhz Nghk; rpy Gtpapay; ghpTfs; tuyhW kwWk; r%ftpaYd; neUqfpa njhlhGi lai t. rpy ghlqfs; Fwpggpl ;l fUgnghU;is kl;LNk nfhz Lss NghJ GtpapayhdJ gyNtWgl ;l fUgnghUl;fis xdwhff; nfhz Lss J.

GtpapaYf;Fk; kww ghlq;fSf;Fkhd njhlh;Gfi sj; njspthf tpsf;Ffpw;J.

thdtpay> fz;fk;> fzpdp mwptpay; Mftatw;Wf;Fk; GtpapaYf;Fk; ,ilNa css njhlh;G:

- thdtpayhdJ el;rjjpuq;fs>Nfhs;fs> Jizf; Nfhs;fs> el;rjjpuf; $l;lk; Nghd;wtww;pd; efh;Tfi sAk; tpz ;ntspapy; VwgLk; gyNtW epfo;Tfi sAk; mbggilahff; nfhz;lJ. fz;fkhdJ> tpz Z yfg; nghUl;fspd; jd;ik> msT> efh;Tfspd; jd;ik Nghd;wtwiw kpfj; Jyypakhff; fz;pff; cjTfpd;wJ. thdtpay> fz;fk;> fzpdp mwptpay; Nghd;wtww;pd; xUq;fpi zgG etl ; tiugl;pay; kwWk; Gtpj; jfty; mi kgG Nghd;wtwwp'fhd Kd;Ndwwg; ghijia tFj;JssJ.

Gtpai kggpaYk; GtpapYk;

- ghi wfs> ghi wfspd; ti ffs> mtwwpd; gutyfs; fdpkqfspd; msT> nglNuhypak; Nghd;wtwiw wg; gwwg; gbggJ Gtpai kggpay; MFk;; ,ejg; ghlk; mi djJ; epfo;Tfi sAk; Mae;J mtwiw tifgglLjjp thpi rggLjjUfpdwJ. Gtpapay; ghlkhdJ ghi wfspd; guty> fhyepi y kwWk; kdjhp; nuay;fspd; njhlh;G> fdpkqfspd; nghUshjhu kjpgG Nghd;wtwiw tpsf;Ffpw;J. Gtpapay; kwWk; Gtpai kggpaYf;F ,ilNaahd MaTfs; epyjj;Nj hwwi jg; gwwa gbgghd Gtp;Gwtpay; vdw Gjpa ghl gghpi tj; Njhwwtpj;JssJ.

,awpay> Ntjpapay; kwWk; GtpapaYf;fpi lNaahd njhlh;G:

- GtpapayhdJ Gtpapy; VwgLk; gyNtW epfo;Tfi s MaT nra;fpwJ. ,jjifa epfo;Tfs; ,awpay; Elgqfspd; fl;i lkgGfF clglNl fz;lwagglLfpdwd. tspkz ;ly ,awpay> thdpayYk> ehf; Nfhsjjpd; ,awpay; Nguhopapay;Yk; mwagglLfpdwd. ghi w> kz ;> eh> eppyjjb eh> tspkz ;lyk; Nghd;wit GtpapayhshfspD; tpUggkhd nghUsl f;fkhFk;.

jhtutpay> tpyqfpay; kwWk; Gtpapay;

- jhtutpay; kwWk; tpyqfpay; ghlggphpTfs; toffkhf Gtpapd; klB fhz ggLk; gyNtWgl;l camdqfspd; ti ffi sg; gwwp tpsf;FtJk; ti fgglLjtJk; MFk; Gtpapay; Gtpapd; guggpay; rhhej gbgghjphy; fhyepi y kwWk; epyjNjhwwk; rhhej jhtu tpyqfpdg; gutyfi sg; gwwa gbgghFk; ,ej ghlq;fspd; xUq;fpi zggpy; cUthdJjhd; "caphgGtpapay;" vdw ghlggphpT.

GtpapaYf;Fk; r%f mwptpaYf;Fk; ,ilNaahd njhlh;Gfs;

nghUshjhuk; kw;Wk; Gtpapay;

- nghUshjhuk; vdgJ kdpjpd; NjitfSk; tpUgggqfSk; mggFjpapy; fpilffpdw tsqfshy; Ghjpjpr; nraag; gLfpwJ vdgNjhL njhlhGila laJ. nghUshjhu Gtpapay; vdgJ tsqfspd; mopgG kw;Wk; gadghlbd; ti ffs; gwwpag; gbgghFk; Ntshz;i k> kdgpbjjy> tdtpay> njhowrhi yfs> tzpfk; kw;Wk; Nghf;Ftuj;J Nghdwi t ,ej ghlg; ghptpy; fw;ggLfpdwd.

- nghUshjhu eltbfi ffs; xU gFjpapd; fhyepi y kw;Wk; epyjNjhwwjjhy; fl;LgLjjggLfpdwd. vdNt nghUshjhuKk; GtpapaYk> Fwpgghf xUqfpi z ej tsqfspd; Nkkghl;bwF> xdWld; xdW njhlhGila Ji wfshFk;

r%ftpaYk; GtpapaYk;

- r%ftpay; vdgJ r%ff; fl;i kgG mkrqfs; rhhej J. r%f mZ FKi wfs> fpuhk – efuqfSffpi lNaahd kffspd; ,lgngah;T> r%ff; FOffSf;F ,i lNaahd gugG rhh; ,i lrnrayfs> fpuhkk; kw;Wk; efuqfspy; fhz ggLk; GJi k kw;Wk; kuGfSf;F ,i lNaahd njhlhGfs; Nghdwtwi w cyfpy; css r%ftpayhshfSk; GtpapayhshfSk; xdwhf ,i zeJ MaT Nkwnfhs;fpdwdh; r%fg; Gtpapy; gugG rhh; r%f epfo;Tfi sg; gbggjhy; r%ftpaYfFk; GtpapaYfFk; ,i lNaahd xU njhlhG ntspggLfpwJ.

khDltpaYk; GtpapaYk;

- khDltpay; kdpj ,dqfpi sAk; mtw;wpd; ti ffi sAk; gwwpa gbgghFk; khDltpaYk; GtpapaYk; kdpj ,Uggpk; kw;Wk; fyhrrhug; gz;Gfspd; mbggilapy; kdpj ,dqfpi s fz;lwpejJ ti fggLjj Kawprffpdwd. Gtpg; guggpy; fhz ggLk; nttNtW ,dk; rhhej epfo;Tfi s tpsff Kawprffpdwd. khDltpaYfFk; GtpapaYfFk; ,i lNa css njhlhgpd; tpi sthf khDlgGtpapay; vdw Gjpa ghlg; ghptpT cUthfpaJ.

GtpapaYk; tuyhWk;

- fhyk; kw;Wk; ,lk; rhhej epfo;Tfspd; fl;i kgNg tuyhW. ,ej epfo;Tfi sgGtpapayhdJ Gtpapd; ,awi f mikgGld; xggpl;L tpsffFfpwJ. ,J NkYk; jygglqfpi sg; gadgLjjp tuyhwW epfo;Tfspd; jyqfi sf; fhl;Lfpw;J. ,ej phtpd; tuyhwW epfo;Tfi s gbff Kawpf;Fk; xUth; mffhyfll;jjpd; ,lk; kw;Wk; fhyk; rhhej epfo;Tfi s xdwpizj;J xU KbTf;F tuNtz;Lk;

Gtpapay; fwwYf;fhd mZFKi wfs;

- Gtpapay; mjd; mZFKi wapy; gy khwwqfisf; fz;LssJ. Kjypy;/ Gtpapayhshfs; Gtpf;$Wfis tpthggthfshf ,Uejdh; gpddh> Gtpapay; xU gFggha;T mwptpayhf tshejJ. ,dW Gtpapay; ghlkhdJ xU nghUis tpthggNjhL klLkyyhky; gFggha;T kwWk; fz pffpdw xU ghlkhfTk; cssJ. Gtpapai yf; fwf; ,U Kiwfs; cssd. mit.

1. KiwggLjjggllj mZFKi w (Systematic Approach)

2. tljhu mZFKi w (Regional Approach)

Ki wggLjjggllj mZFKi w:

- KiwggLjjggllj mZFKi w Gtpapay; mwpQH mnyfrhz;lh; thd; ` kNghyl; (1769 – 1859) vdgtuhy; mwpKfggLjjggllJ. mwpKfggLjjggllJ. ,ej mZF Ki wapy; xU Fwpggl epfoT tphthd Ghj;Yffhf vLj;Jf; nfhssggLfpwJ. gugG rhh; khjphp kwWk; flli kgi g Gtapd; kU cUthfFk; ,awif myyJ nrawif epfoTfis g gwwa gbgig KiwggLjjggllj mZFKi w vdfpNwhk; nghhJthf KiwggLjjggllj mZFKi w ehdF Kf;fpag gphpTfshf tifggLjjggllLssd.

1. ,awGtpapay; (Physical Geography): tspkz;lyk> ePhpay> ghi wfNfhsk> capfNfhsk; kwWk mtwwd; guty; gwwa gbgG.

2. caph;Gtpapay; (Biogeography): (RwWrRoy; Gtpapay; clgl) fhLfs> Gyntspfs> jhtu tpyqfpdg guty> kdijd; - ,awif njhlhh;Gfs> capapdr; #o;thopjjpd; jdi k kwWk; kdij eydkU mjd; jhf;fq;fs; Nghdwtwi w tpthggJ.

3. khdpl Gtpapy; (Human Geography): kdij f; fyhrrhuk> kf;fs; njhi f> r%fg; nghUshjhu kwWk; murpay; mkrqfis tpthpffpwJ.

4. Gtpapay; Ki wfs; kwWk; EZ f;fqfs; (Geographical Methods and Techniques): fsggaz k> juk; kwWk; epyti ugl gFggha;Tf;fhd Ki wfs; kwWk; EZ f;fqfs; rhhejJ.

tljhu mZFKi w:

- ,ej mZFKi w fhhy; hpl;lh; (1779 – 1859) vdgtuhy; mwpKfggLjjggllJ. ,th; ` kNghyl; thoej fhyjjpy; thoej th; epyjNjhwwk> ki o> jhtuk> jdi egh; tUkhdk; Nghdw VjhtJ xU

fhuz ;a;d; mbggi la;Nyh myyJ ,uz ;LfF; Nkwgl;l; fhuz ;fs;d; mbggi la;Nyh ;eyggugGfs; ti fggLjj ggLfp;dwd. khep;yk> khtl;;k> jhYf;fh Nghdw eh;thf myFfS k; ;eyggugGfshf vLj;Jf; nfhs;s;ggLfp;dwd. tl;;hug; Gtpapayd; ghpTfshtd.

Ø tl;;hu Ma;Tfs;

Ø tl;;hug; gFggha;T

Ø tl;;hu tshrp

Ø tl;;huj; ;j ;pl;kpl y;

Gtpapay; jfty; ti urrl;k; (Geographical Data Matrix):

- rp;ffyhd gugG rhh; gpurri dfi sr; rpwgghfg; Ghpe;Jnfhss Gsspptuj; jftyfi s thpr kwWk; gjjpapy; mLffp itjjFffhl;Lk; vspa KiwfF tiurrl;k; vdgngah; ghpad; N[.vy; nghhp (Brian J.I. Berry) vdgth; Gtpapai y kpfj; jwkgl gbggj wF ,ej Kiwia khDI tpayyppUej vLjJnfhz ;lhh; Gtpapay; jfty;fi s tiur; rl;jjpy; mLffp itffyhk; Gtpapay; ghpTfs; thpi rapy; fhl;;ggLfp;dwd. tl;;hu eyggugGfs; gjjpapy; fhl;;ggLfp;dwd. rhpahd fhy thpi rapy; mikeJss Gtpapay; tiur; rl;jpnjhl;hpd; cjtpald; tl;;hur; njhFgGfs; ngwggLfp;dwd vd nghhp tpsffpapUffpwhh; xtnthU fhy msTk; xU Kgghpkhz f; Nffj; Jz ;bd; msTfF rkkhf ,UffFk; thpi rfi sAk; gjjpfi sAk; ghpNrhjpiggj; %dwhtJ ghpkhz k; rhjj;pakhffFfpwJ.

1769 Mk; Mz ;L nrgl;lkgh; 14y; gpwej mnyfrhz ;lh; thd; ` kNghyl;; xU gyJiw ty;Ydh> Gtpapayhsh> ,awi fapayhsh; kwWk; Ma;Tg; gaz k; nragth; ` kNghybd; jhtug; Gtpapay; kJhd Ma;thdJ Gtpapai Yf;F xU mbggi lahf mi kejJ. ,th; fh]; kh] ; (cosmos) vdw gz ;i la fpNuff nrhyyp; gadghbwFg; Gjj;aph; msppjjhh; ,tuJ gynjhpFjp Ma;Tf; fl;Li uf;F fh]; Nkh] ; (Kasmos) vdg; ngahp;l;hh; kdpj dhy; J}z ;lggl;l; fhy epy y khwwjij 1800 y; Kjd; Kjyph; vLj;J iujj th; ,thjhd; ,th; FtNdhNfh M] ;ghyl;; Vhpi a 'eyy; kj;FUtd; eUwW” vd tpthpjjhh; ` kNghyl;;Lk; Nghz gyhd;;Lk; (Bonpland) kdpjid nfhyyf; $ba kpd; mjphrp jUk; tpyqF kl df; fz ;Lgpjjdh; vfptl hhpy; jqfpapUej Nghj gprrdrrh kwWk; rpkNghuh rpfuqfspy; 5>878 kl;l h; cauk; tiu VwpnrndwJ Fwggpl;jffJ ,J mej fhyfl;jpy; cyf rhjidahf ,Uej J. mnkhpff mjpgh; n[ghrd; ` kNghyli l “kpfrrpwej tpQ;Qhd kdpjh” vd GfopJsshh;

Gtpparapyd; ghpTfs;

- c s s l f;fk; kw;Wk; EZ f;fq;fspd; mbggi lapy; Gtparai y %dW ngUk; ghpTfshfg; ghpffyhk; , i t gyNtW Fwpggpl; Nehf;fq;fSld; gy clghpTfshf NkYk; ti fggLjjgglLssd.

1. **Gtpg; Gwtpay; (Geomorphology):**
   epyj;Nj hwjj;pd; guty> Njhwwk; kw;Wk; mtwpd; Njhwjjij khwwpai kf;Fk; fhuz;pfs; Nghdwtwi w tpsf;FtJ Gtpg; GwtpayhfFk; GtpgGwtpaYffhd mbggi lj; jftyfis Gtpai kgggpay; toq;FfwJ.

2. **kz ; Gtpparapy; (Soil Geogprahy):**
   kz ; cUthf;Fjpy> kz z;pd; ti ffs> kz z;pd; FWfFntl;Lj; Njhwwk; kw;Wk; guty> kz ; mhpgG kw;Wk; kz ; ghJfhgG Nghdwtwi w ,ggghpapd; fhp fw;fyhk;

3. **fhyepi yapy; (Cliamatology)**
   jftyfspd; mbggi lapyhd cyfshtpa kw;Wk; tlyhu fhyepi yia tpsf;FfwJ. thdpi yapy; (Meteorology) tspkz ;lyjjpd; fyi t> mLf;fi kgG kw;Wk; khwwqfs; Fwjj; tptuqfi s toq;FfdwJ.

Gtpparapyd; ghpTfs;

, awGtpparapy;	Gtpg; Gwtpay;
	kz ; Gtpparapy;
	fhyepi yapay;
	ehpay;
	Nguhopparapay;
	c aph; Gtpparapy;
	RwWr#oy; Gtpparapy;
khdpl gGtpparapy;	tuyhw;Wg; Gtpparapy;
	khdpl tpay; Gtpparapy;
	fyhrrhug; Gtpparapy;
	r%fg; Gtpparapy;
	kffl; njhi fg; Gtpparapy;
	FbapUgGg; Gtpparapy;
	murpay; Gtpparapy;
	nghUshj hug; Gtpparapy;
	kUj;J tg; Gtpparapy;
Gtpparapy; EZ f;fq;fs;	fz pg; Gtpparapy;
	Gssparapy; Gtpparapy;
	epy ti ugl tpay;
	njhi y EZ ;Z z hT
	Gtpj jfty; mi kgG
	cyfshtpa CLUTk; nrawi ff; Nfhs;

4. **eHnuay; (Hydrology):**
   Nguhoufs> MWfs; kwWk; eH; epi yfi s csslffpa eHfNfhsjjpd; jdi k> mi kgG kwWk; , twwpy; VwgLk; khWjyfs; gwwp tpsfFtJ eHnuayhFk; NkYk; , jd; %yk; epyjjb eH> eHtsk; GJggpjjy; kwWk; eH; khWgLjy; FwpjJk; mwpayhk;

5. **Nguhopapay; (Oceanography)**
   , J Nguhopi ag; gwwpag; gbgghFk; NkYk; , J Nguhopfspd; tbtk; msT> Mok> guty> flyb epyjNjhwwqfs> fly; eNuhllqfs; kwWk; fly; tho; caupdqfs; FwpjJ tpthpffpwJ.

6. **caph; GtpapDay; (Biogeoraphy):**
   , J Gtpapd; Nkwguggpy; fhz ggLk; #o; njhFjpfs; (Ecosystem) FwpjJ fwgjhFk; NkYk; #o; njhFjpapay; VwgLk; khwwqfis s , J tpsfFfpwJ. jhtug Gtpapay; (Phytogeography)> tpyqFg GtpapDay; (Zoo Geography) Nghdwit , jd; clghpTfshFk;

7. **RwWr; #oy; Gtpapay; (Environmental Geography):**
   , J epyk> eH> fhwW Mfpatwwpd; rLopptpdhy> RwWr#oYfF VwgLk; ghjggpfisg gwwpa gbgghFk; , J XNrhd; glyr; rpijT> cyf ntggkakhjy> JUtg; gdp cUFjy> fly; eH; kllk; cahjy; Mfpad FwpjJk; tpsfFfpwJ. , J RwWr; #oy; njhlhghd gurri dfSfF epuejujhT fhz Tk; KwgLfpwJ.

khdpl g; Gtpapay; (Human Geography):
· , J , awif kwWk; epyjNjhwwqfspy; kdpjhfshy; VwgLk; khwwqfs; Fwjj gbgghFk; fhyepy y> vhpki yfs> ntssgngUfF. #whtspfs; Nghdw rthyfis kdpj , dk; vjhnfhs;tJ FwgjJk; mwpagLfpwJ. , jpy; nkhop> kwWk; murpay; rhhej epfoTfS k; fUjjpy; nfhssgLfpdwd.

1. **kf;flnjhi fg; Gtpapay; (Population Geography)**
   , J kf;fl; guty; Fwjj gbgghFk; khWgLk; taJ kwWk; Mz > ngz; tpfpj hrrhuk> gpwgG> , wgG tpfpjqfs> MAl;fhyk> fy;tpawpT> rhhG epi y tpfpjk> ehL kwWk; cyf mstpyhd Gyk; ngahjYffhd fhuz qfs; kwWk; tpi sTfi sf; FwjJ vLjJi uffpwJ.

2. **FbapUgGg; Gtpapay; (Settlement Geography):**
   , J fpuhkpa kwWk; efhgGwf; FbapUgGfspd; jdik kwWk; Nghfftuj J ti yggpddy; (Network) Fwjj gbgghFk; , jd; KOi kahd gbgghdJ jwfhy FbapUgGfspd; guti yg; Ghpej J nfhz L vjhfhyjjpwfhd jpllqfi s tFggjhFk; NkYk; fpuhk kwWk; efui kgG jpllqfSfF , t;twptpay; kpfTk; Nji tahdJ.

3. **tuyhw,Wg; Gtpapay; (Historical Geogrpahy):**
xU epyggugG flej fhyjjpy; vt;thW , Uej;J vdgijAk;
fhygNghf;fpy; mJ vt;thW khwwqfps milejJ vdgijAk;
,J fhlrpggLjjp KayfdwJ. ,J INuhggpahfspd; FbNawwk>
myyJ Nghplhfs; xU epygguggpy; VwgLjjpa khwwqfis Ak;
fUjjpy; nfhs;tjhFk;

4. **khdpl tpay; Gtpapay; (Anthropo Geography):**
kdpj r%fqfspd; gutYk> mrr%fqfspd; Gtpapay; #oYk;
FwjJj xU gbgghFk;

5. **fyhrrhug; Gtpapay; (Cultural Geography):**
fyhrrhug; Gtpapay; cyfpd; gyNtW gFjpfspy; fhz ggLk;
czT gofftoffqfs> jpwdfs> Mil Mguz qfs>
ekgpi ffs; kwWk; r%f mi kgGfs; FwjJj xU gbgghFk;

6. **r%fg; Gtpapay; (Social Geography):**
,J fyhrrhu GtpapaYld; neUqfpa njhlihGi laJ. ,J gyNtW
r%f mi kgGfs; kwWk; r%fqfspd; thopl qfSffpi lNaahd
njhlihGfi s Ma;T nraffpdwJ.

7. **murpay; Gtpapay; (Political Geography):**
,J ehLfs; kwWk; mtwwpd; mzil ehLfs>
tsqfi sggqfpLjpy ypy; vOk; rpffyfs> vyi yfs; kwWk; njhFjp
tukGfs; Nghdwtwi w ehk; Ghpe;Jnfhss topgFffpwJ. ,ejg;
ghlggpupT kffspd; murpay; eljijfs> ehLfSf;F ,i lNaahd
cwTfs> thffspgG Kiwfs; thffspgGj; njhFjpfspd;
fl;Lggghl;fs; Nghdwtwi wAk; tpsfFffpwJ.

8. **nghUshjhu Gtpapay; (Economics Geography):**
,t;twptpayhdJ Kjy; epiyj; njhopypfs; ,uzlhk; epiyj;
njhopypfs; kwWk; %dwhk; epiyj; njhopypfspd; cyf gutiy
vLj;Jia uffpwJ. czT Nrfhpjjy> Ntliahleljy> tpyqF
tshgG> Ntshzik kwWk; Ruqfj; njhopy; Mfpad Kjy; epiyj;
njhopypfs; MFk; nghUlfis cwgjjp nraypy; ,uzlhk; epiyj;
njhopypfs; MFk; tz pfk> NghfFtujJ> jfty; njhlihG
fwgjjpy; kwWk; RwWyh Nghdwit %dwhk; epiyj; njhopypfs;
MFk;

9. **kUj;Jtg; Gtpapay; (Medical Geography):**
kUj;Jtg; Gtpapay; Gtpr; #oypy; gyNtW tifahd Nehafspd;
njhlif fk; kwWk; guty; gwwp MaT nraffpwJ. NkYk; ,J cyf
Rfhjhuk; kwWk; cly; eyk; NgZjYffhd jplikpl YfFk;
cjTfpdwJ.

Gtpҧpay; EZ f;fq;fs; (Geographic Techniques):

- Gtpҧpay; gugG rhh; fl;likgG kwWk; tbtjj Muhae;J fz;lwpa gy Kiwfi sAk; fUtpfi sAk; cUthffpAssJ. NkYk; miktpl qfi sAk; tbtjj jAk; msej MaT nraJ rhahf GhpejJnfhss ,J rpy topKiwfi sAk; fUtpfi sAk; jUfpwJ myyJ ngWfpwJ.

  1. **fz jpjg; Gtpҧpay;**
     ,ttwptpay; %yk; Gtpҧpd; msT> cUtk> ,affqfs> Neuk; kwWk; Neu kz;lyqfs; Kjypatwiw mwpeJ nfhssyhk;

  2. **Gssppay; Gtpҧpay;**
     ,J kffs; njhhiff; fz fnfLgG Nghdw Gtpҧpay; ghpkhz qfi sf; nfhz;l Gsspttuqfi sr; Nrfhpj;J> gFjjhae;J tpsf;FfpwJ.

  3. **epy ti ugl tpay; (Cartography):**
     epy ti ugl tpay; vdgJ mjҧfhugGhpt jftyfspd; mbggil apy; nttNtW msi tfspy; epy ti ugl qfi s cUthfFk; fi yahFk; xU tUtha; fpuhkjjpy; css mi djjjy epy ti ugl qfi s ,iz jJ xU tUtha; fpuhkjjpd; epy ti ugl k; cUthffggLfpwJ. gpddh; xU tUthaf; NfhiljjpYss tUtha; fpuhkqfspd; epy ti ugl qfi s njhFjJ Nfhhl epy ti ugl qfs; cUthffggLfpdwd. Nfhhl epy ti ugl qfi s ,iz jJ khtll epy ti ugl qfs> khtll epy ti ugl qfi s ,iz jJ khepy epy ti ugl k; cUthffggLfpdwd. khepyqfspd; epy ti ugl qfi s ,iz jJ xU ehl;bd; epy ti ugl k; cUthffggLfpdwJ.

  4. **njhiy y Ez;z zh;T (Remote sensing):** njhiy y Ez;z zh;T Gtpҧpd; Nkwgugppy; fhz ggLk; jftyfi s thD}hjpp kwWk; nrawif Nfhsfspy; nghUjjggLss cz hpfs; %yk; jpulb gFggha;T nraJ gugG rhh; jftyfi s ekfF msppfpwJ.

  5. **Gtpjjjfty; mi kgG (Geographical Information System – GIS):**
     ,J Gtpҧpay; gbgGffhf mz i kapy; cUthffggl;l fz pdp mbggil apyhd Xh; cjjpahFk; ,J jftyfi s NrfhpffTk> MaT nraaTk> ghpkhwTk; ntsppapLTk; kwWk; Gjpa fUj;Jrhh; epy ti ugl qfi s (Thematic Maps) cUthffTk; gadgLfpwJ.

  6. **cyfshtpa CLUty; nrawi ffNfhs; mi kgG**
     ,J cyfpy; css vej xU ,ljijAk; kpfj; Jyypakhf Fwpggpl;Lr; Rl;bffhl;l cjTk; mi kgghFk; thD}hjppfs> fggyfs> epytop thfdqfs; Nghdwit nrayYk; topfs; mtwwpd; jwNghijja ,Ugggpl k; Nghdwtwiw mwpeJ nfhss ,J

ngh];Uk; cjTfpdwJ. thfd xIbfSfF Neh;topfis sf; fhl;ITk; J}uk; kwWk; gaz Neuk; mwpaTk; ,J cjTfpwJ.

Gtpapay; fUtpfS k> jwdfS k;

- xtnthU ehSk; CIfqfs;> cyfpd; gyNtW gFjpfspy; epfOk; Gtpapay; Kffpaj;Jtk; thaej; nrajpfis ntspapLfpdwd. mit epy mjph;T> ntssgngUfF. fhl;jjpP epyrrhpT Nghdwi tahfk; ,eepfo;Tfs; xtnthUth; kdjpYk; VwfdNt mthfs; ngwwpUej Gtpapay; mwpt epi dTffFf; nfhz;LtUfpdwd.

- epyti uglqfs;> Gtpkhjphp> thd; xspgglqfs; (Arial Photos) nrawi ffNfhs; gjpkqfs; (Satellite Images) Gtpj; jfty; mi kgG kwWk; cyfshtpa CLUTk; nrawi f Nfhs; mi kgG Mfpatwiw Gtpapayd; ,dwpai kahj fUtpfs; vdyhk; ,ttiff; fUtpfs; cyfg; guty; tiffis ,dqfhz f; $ba Gtpapayd; xUqfp z ej gFjpahf tpsq;FfwJ.

- cyf mi ktplqfs; fz;lwpAk; njhFjpfspd; EZ ffqfs; epyti uglqfis ,yffKiw mLtFFis Nkythpjpjjy; Kiw %yk; mLtfp xgglL nraJ tpiuthfTk; jpwikahfTk; cUthfFk; jpwdfis NkkgLjjp csslJ. ntssk;> #whtsp fhl;LjjpP Nghdwtwwhy; ghjpffggl;l epyggFjpfis Ak;> ghjpgG kjpgglpiyAk; kpff; Fi wej fhyjjpy; fz ffpl ,kKiw cjTfpwJ. CLUTk; nrawi fNfhshdJ ,ttif ghjpgGfs; Vwgll gFjpfis Jyypakhff; fhz cjTfpwJ.

- Gtpapay; mz i kffhyqfspy; khz thfSffhd rei jggLjjf; $ba jwdfis cUthfFtijNa FwpfNfhshff; nfhz;LssJ. Nti yia rei jggLj;Jjpi y i kaggLjjp mjd; fUgnghUis mbf;fb khwWk; jd;i kAi laJ. mjdhy; GtpapayhdJ jd;Di la fwgjjpy; newpKi wia khwptUk; r%fjjpd; Nghf;ffS fNfwg khwwpai kff; Ntz bAssJ. NkYk; khz hf;fhpi lNa ,uzL

jdjjwdfis cUthffp cyfg; gz;pr; re;jary; Ntiy
thagi gg; ngw cjTfpdwJ.

epyti uggl tpay; (Cartography):

- ,j;Ji wary; jdjjwd; ngww Gtpapayhshfs> kuGrhh;
epyti uglqfs> ,yffKiw epytiu glqfs> epyti ugl Gjjfk;
(Atlas) tpsffggl qfs; (Chart) Nghdwtwi w cUthfFfpdwdh;
Gtpapay; ehz ajjpd; ,U gffqfshf epytiugl tpai yAk>
msthfFji yAk; (Quantification) $wyhk; fz pdpg GulrpahYk>
msi tfshYk; ,lk; rhhej (Spatial) jftyfis i fahs;tJ>
epytiuglqfs; clNd jahh; nrajy; klLkyyhJ Gssptptu
ti uglqfs> ti uglg; gjpkk; (Graphic Images) kwWk; cUtggjpkk;
Nghdwtwi wr; nra;tJ vspjhfpwJ. fz pdp cjtp epyti uglqfs;
jahhpggJk; jwNghJ vspjhf ,UffpdwJ. epyti ugltpaypy;
fz pdpapd; tuthy; Kgghpkhz cUtg; gbkqfi s cUthfFjYk>
ghhi tf; Nfhz qfi s khwWjYk; gbkqfi s epWTjYk; vspjpy;
epfof; $baj hapwW.

epyg; gadghL ,ay;

- ntssgngUfF> twlrp> fhlLjjP Nghdwtwwhy; VwgLk; mjpf
khwwqfis njhi y Ez;Z zhTj; jftyfis; %yk; njspthf
mwpayhk; Gtpapayhshfs; ,jji fa khwwqfis Muha;tjpy; jpwd;
ngwwthfshth; ,jdhy; njhi y Ez;Z zhTj; jftyfis
gadgLj;Jk; epWtdqfis; ,sepi y kwWk; KJepi y Gtpapay;
gl;ljhhpfis gz;apy; mkhj;Jfpdwd. nrawi ffNfhs; top
Ez;Z zhTj; jftyfSfF Kd;Nu thd;top xspgglqfs>
,awi ftsf; fz fnfLgG> efhGw kwWk; tl;lhuj; jpllkplYffhd
Gssptptuqfs; gutyhf Gtpapayhshfshy; gadgLjjpgglL tejd.
gyNtW nrawi ffNfhs;fs; FwpgglI ,ilntspfspy; jUk;
jftyfs; Gtpapapd; vej xU gFjpai aAk; Muha cjTfpdwJ.

,lk; rhhej gFggha;Tg; Gtpapay; (Geo Spatial Analysis):

- jfty; njhFgG> Gtprhh; jfty; Ma;Tfs> nghUjjjkhd cyf
mi ktplqfs; fzlwpAk; njhFjpfs> nkdnghUs; Nghdwi tfis
Gtpapay; ,lk; rhh; gFggha;T Ma;thsh; tbti kffpdwhh; ,J
,uhZ tk> kid thjjfk; (Real Estate), khri ljy; kwWk; muR
ephthfk; Nghdw Jiwfspy; ngUkstpy; gadgLfpwJ. ,ejj; jpwd;
kUj;Jtki d> fhty; epi yak> ji yi kapl;qfs; Nghdwtwwpd; Gjpa
nghUjjkhd mi ktpljpjAk> Vwfdt css mi ktplqfspy;
khwwk; VwgLjjTk; cjTfpdwJ.

RwWr#oy; jhf;fg; gFgghs;T:

- RwWr#oy; jhf;f gFggha;Tf;F ,awi f> r%f> nghUshj;hu gs;sp
  t;ptuq;fs; kpf mj;pf mstpy; Nji tggLf;pdwd. ,j;jifa Gss;p
  t;ptuq;fs; epytiuglq;fs> nrawi ffNfhs; jftyfs> fs MaT;
  kwWk; RwWr#oy; Ma;tfq;fs;pypUeJ ngwggLf;pdwd. ,gGss;p
  t;ptuq;fi s xUq;fpi zj;J fhl;rggLjjf;$ba KbTfs;
  vLf;fggLf;pdwd. mjjifa gy ghfq;fi sf; nfhz;l fUgnghUs;
  KbTfs; jpdrhp kwWk; eZ;l fhy RwWr; #oy; gpurri dfSf;F
  jhT fhz cjTf;pdwd.

tl;hhuj; jpl;lkpl y;

- xu efu myyJ tl;hhu tshrrpj; jpl;l ty;Ydhfs; jpl;lkplg;
  NghFk; gFjp Fwpj;J xl;Lnkhjjj; jftyfis mwpejtuhf ,Ujjy;
  Ntz;Lk; jpl;lkplypd; NghJ gyNtWglll rpffy;fSf;F nraynhfff;
  $ba epi yahd MNyhri d kwWk; jpl; tbtqfis
  cUthffgtuhfTk; ,Ujjy; Ntz;Lk; tl;hhuj; jpl;lkplyhdJ>
  ,yyk; mikjjy> etld efu Nkkghl;Lj; jpl;lk; NghdwtwWld;
  njhlhhGilaJ. gyNtWglll Nji tfSffhd cddj ,l
  i kaq;fi s ,dq;fhZk; tl;hhu epyggadghL epyti u glq;fi s
  cUthf;fTk; ,J gadgLfpwJ.

thdpi y KddwptggG / epfo;twptggG (Weather Forecasting / Now Casting):

- jwNghJ> fs kwWk; nrawi ff; Nfhs; jftyfi sf; nfhz;L
  thdpi y Ma;thshfs; fhwpd; jpi r> ki offhd thagGfs>
  #whtspmfd; efhT Nghdwtwi w KddwptggG nrafpdwdh; Mdhy>
  Nkkgljjggl;l nrawi ffNfhs; jftyfs; kwWk; Gtpj; jfty;
  mi kgGj; njhopy; Elgk; Nghdwtwwhy; thdpi y khwwq;fi sAk;
  #whtspg; gazk; ghi jfi sAk; clDfFld; mwptpff ,ayfpwJ.
  ,JNt thdpi y epfo;twggG vdggLfpwJ. Gtpapayhshfs; gugG rhh;
  kwWk; gugG rhuh jftyfi sg; gadgLjjp thdpi y kwWk;
  fhyepi y KddwptggG Nghdwtwi w Nkwnfhz;L Gtpapy;
  mkkhwwq;fspd; jhf;fq;fi sAk; Kddwptpffpdwdh; kwWk;
  epfo;twptpffpdwdh;

nghpa msT epytiuglq;fi s msi t nra;J gadgLj;Jjy;

- rq;fpyp mstpay; Kjy; cyfshtpa mi ktplq;fs; fz;lwpAk;
  njhFjpfs; mi kgG (GSP), cyf mi ktplq;fs; fz;lwpAk;
  njhFjpfs; mi kgG (DGPS) tiuapyhd fUtpfs; Gtpapy; ghlj;
  jpl;ljjd; xUq;fpi z ej mq;fq;fshFk; khz hfhfhfs; jqfs;
  fyY}hpapapYss gyNtW flblqfis mse;J tiuglq;fis
  cUthf;Ffpdwdh; NkYk; Nkkgli l mstlLf; fUtpfs; nfhz;L
  jqfs; tshfqfis mse;J nghpa msi t tiuglq;fis

cUthf;Ffpdwdh; NkYk; tUthaj; Ji wapdh; gadgLj;Jk; epy
msTg; Gjjfjjpd; gadfs; Fwpjj gapwrpAk; ngWfpdwdh;
,jjifa Gtpapay; mwpTk> nghpa msit epyggl qfspd;
fUj;Jffi s ntspfnfhz Uk;jwi dAk; ngWfpdwdh;

· epy CLUty; Nulhh; xU tsheJ tUk; epy msi tf; fUtpahFk;
,J Gtp mwptpay; Ji wfspy; klLkpdwp njhynghUs; MaiT> Fbrhh;
nghwpapay> efuj; jpl;kply; Nghdwtwwpy; Kffpag; gqF
tfpffpdwJ. msi tapaypy; jdpjjpwd; ngww ,tti fg;
Gtpapayhshfs; jdpahh; msi tj; Ji wfspy; Nti y thagGfi sg;
ngWfpdwdh;

jkpo; ehlby; Gtpapay; fy;tp

· jkpofjjpy; css fyY}hp kwWk; gyfi yf; fofqfspy; Gtpapaypy;
,sqfiy kwWk; KJfiy gbgGfi s neLqfhykhf toqfp
tUfpdwd. ,twwpy; rpy Ji wfs; Njrpa kwWk; rh;tNjr Ma;Tj;
jpl;l tiui t Nkwnfhsfpdwd. ,j;Jiwfs; FWfpa kwWk;
ezilfhyg; gapwrpfs; kwWk; gz pki dfi s eljjp rkpjjpa
Gtpapay; mwpT kwWk; njhopylElgjij khz hffUf;Fk> MaT
NkwnfhsgthfSf;Fk; kwWk; Mrphpahf;Sf;Fk; gadgLk; ti fapy;
fwgpj;J tUfpdwd.

Gtpapai y fwgpjjy; kwWk; fwwYffhd Gsspptuqfs;

· Nghpl h> RwWr#oy; rpffy> ,awi f tsk; kwWk; cyfshtpa kwWk;
cs;@h; ,ddyfs; gwwp Gtpapayhsh; fti y nfhz Lsssdh;
ngUkghYk; ,tti f ,ddyfi sg; gwwp tFggi wfFs;
tpthjpffggLfpdwd. ,tti fahd ,lhghLfi s GhpeJnfhsjjw;Fk;
mtwwpwF seyy KbTfs; fhz gjwFk; mi t njhlhghd
Gsspptuqfs; ngUksT Nji tggLfpdwd. ,tti fahd kjpgG
kpff jftyfi s rpwgG ntsppaLfs; %yk; rKjhajjwF nfhz L
nry;tjpy; ,ejppahtpy; gy epWtdqfs; <LgLL tUfpdwd. gsspfs>
fyY}hpfs> gyfi yffofqfs; kwWk; Ma;T epWtdqfs; Nghdwi t
,JNghdw epWtdqfspy; gjpT nra;J vOjp mDggp rpwNwLfs>
Jz Lg; gpuRqfs> nrawi ffNfhs; gbkqfs> i fNaLfs;
Nghdwtwi wg; ngwKbAk; ,ej epWtdqfs; eljJk; FWfp a fhy
gapwrpfs> fsggaz k> gz pki dfs; Nghdwtwwpy; gqnfLffg; gjpT
nraJ nfhssyhk;

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