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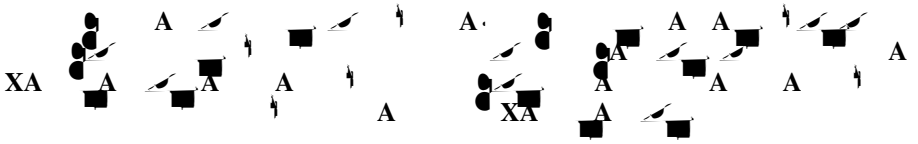

T eh ew B A B c Ge e a & Ho ou cou e a a e eh y e o educa o
ah bee uc u ed keep n n v ew ce a ba c u de e a u de

(i) T eh c eh e ou d p ov de a b oad ba ed e e a ed a d co p e eh ve

(ii)

(iii)

(iv)

TRUCTURA OUT O TH B A B C G RA HO OUR D GR COUR
TH T O DUCAT O

A n

T eh B A Ge ne a p o a e o udy ah co n o c ed eac h ed aw n a va ue o a k A ubjec ud ed o ehw ohe acade c yea ah ca y c ed A eh eb o y pape a nd p ac ca e pec ve o eh c ed va ue ah be ud ed ou ohu ehacade c yea

T ehde a o eh ubjec o be ud ed ah be a u nde

x n n

a u njab – Two ape C ed

T ehe pape co n u e o ne
ubjec n eac h yea

*H o y & Cu u e o u njab – O ne ape C ed

b n h C ed

A ny de e ec ve ubjec o wo c ed eac h nc ud n 6 C ed
a n ua e a nd ec ve voca o na ubjec To be ud ed n
e ec ed co e e

n n n n a k

n **x n n**

a e a n eh yea

x n n

a e a n eh yea a nd nd yea exa na o n

n ubjec aw n p ac ca eh eb o y pape a nd p ac ca o e eh w be o c ed va ue
T ehca nd da e w aw e o pa n eb o y a nd p ac ca / epa a e y

ac h ape o o ne c ed ah be a oca ed ohu o eac h n pe week du n eac h acade c yea Howeve o ubjec aw n p ac ca de ohu o eac h n w be a oca ed o eac h eb o y pape a nd wo ohu o a p ac ca pe week o a pe equ e e n o eh ubjec co nce ned

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TRUCTURA OUT O TH B A B C G RA HO OUR D GR COUR
TH T O DUCAT O

B A Ge e a de ee ohde ah be e b e o ad o o eh a e cou e a y o ehe ec ve ubjec ud ed by eh du a eh he yea o ehp o a e o udy ea x c ed eac p ov ded eby u ehe b y co d o

A ude wou d o e a y c e ce ubjec c ud a eh a c o y eh ah pa ed ah ubjec e qua y exa a o o qua e eh ubjec a a de c e add o a ubjec o ehco ce ed Boa d U ve y Cou c n eh upp e e a y xa a o ub eque o ehad o

ov ded u eh aha ude ca o e

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T ehB c Ge e a p o a e o udy ah co o c ed eac hed ahv a va ue o a k A ubjec ud ed o ehw ohe acade c yea ah ca y c ed A eh eb y pape a d p ac ca e pec ve o c e n 86 h n 6 8 8 9 8 898 b6 89 6 89 98 6

TRUCTURA OUT O TH B A B C G RA HO OUR D GR COUR v
TH T O DUCAT O

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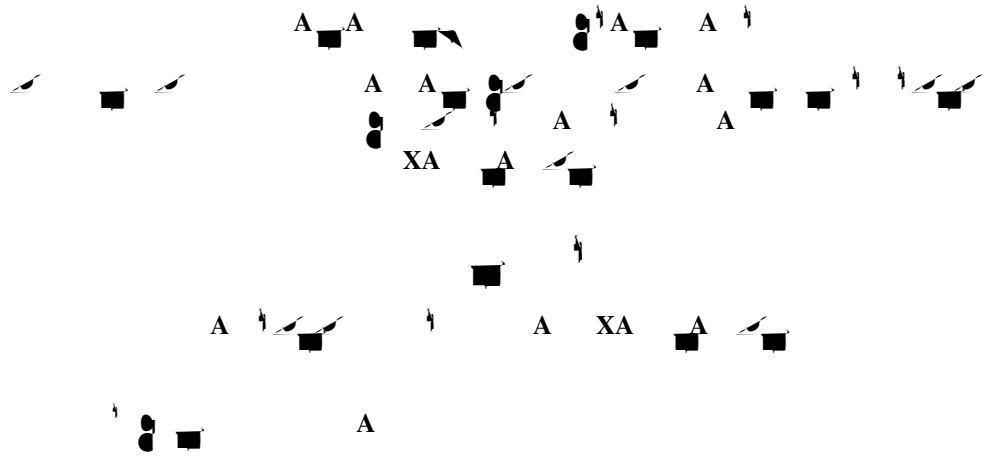

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n e n a A e e n a k

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o ep Go n ad

B Y ea

St. Joan d A C a d O e n o n a n Hyde abad

Animal Farm, K a ya n C a c ew De h

Heart of Darkness.

Dow n by eh a ey Ga de n ”

T eh o n o a nde n Ae n u ”

T eh ake e o nn ee” o Y ea oe ed by
o a n e a e K a ya n ub eh ew De h

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B A B c HO OUR TH RD Y AR Y ABU

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C a ca a n k e a u e A B K e h

A H o y o a n k e a u e A A acdo n e

A H o y o n d a n e a u e Vo V n e n z

H o y o a n k e a u e by V Va adac ah

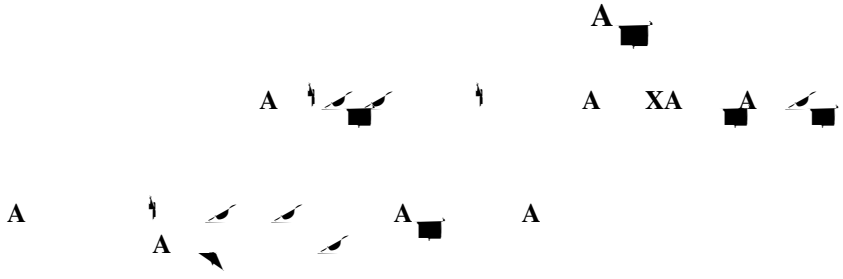
6 *lLdr lkfgR; dk bfrgkl % cyno mikè;k;*

ofnd lkfgR; vkj lLdfr% cyno mikè;k;

8 *ofnd lkfgR; ,d foopu % Mk- on idk'k mikè;k;*

9 *lLdr lkfgR; dh : ij[kk % pUn'k[kj ik.M;*

Note : A ehbook a e ava ab e a ehC ahk ah ba a n k e e C ahk ah ba Va a n a a n d o a Ba n a a da awa ah a a Bu n ow Road De h



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H o y o e a n e a u e by D Razazade h ahaq

H o y o e a n e a u e by D B ow n Vo

a k
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B A B c HO OUR TH RD Y AR Y ABU

a b e ad d e a ayyed e Ba a a n De k6

Qua da n

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"Da eh Ba n d e h a a D ba a u n d"

G aha ya a vee n a by e dh Ha eed

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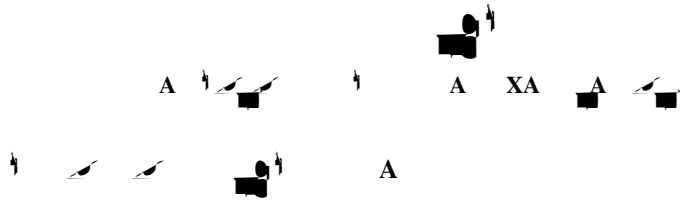

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T be que o n o a k eac h

B A B c HO OUR TH RD Y AR Y ABU

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Co p e eh o n exp a n a o n e a y app ec a o n a n d c c o ehpoe o be ud ed

n

ou H ne qua n d vou e ez b e n v e e e Ro n a d e n c hoe y o ude n –A Ba n
e ave e e a n a n c e a o n a n e e n c hoe y o ude n –A Ba n
e Ra qu e e du o n de – a o n a n e – e n c hoe y o ude n –A Ba n
o e e n – a a n e – e n c hoe y o ude n –A Ba n
u que j a a v e –V Hu o e n c hoe y o ude n –A Ba n
6 a o du oup –A De v n y – e n c hoe y o ude n –A Ba n
Recue e e n Baude a e – e n c hoe y o ude n –A Ba n
8 a e d c u e – eve – a o e
9 u a n e Ray o n d Que n eau n a n a a
o n éve a e – Ve a n e –co ec o n a e a a de e c ahd X X c e

Note : T ehae y abu ohu d be c y o owed
C ohce ohu d be ve n n que o n

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a o e ed o n o o by acque eve
e a n ca e a V e To e G au e / B uez e e
Co ec o n e a e X X ec e ouveaux c a que a ou e
oe c oh –A de u e –e d o n – ouveaux c a que a ou e

a k

D c a o n o a n u n ee n pa a e o abou wo d a k

O a que o n ba ed o n ehd c a o n pa a e a n d a o e n e a que o n a k

Note : Que o n n a ehpape ah be a ked a n d a n we ed n e n c ohn y

B A / B c HO OUR TH RD Y AR Y ABU

fgUnh

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rrh; ikB;p;k **i.kkd ¼90$10 100**

le; ¼3 ?k.V

1- dk0;&ukVd¼ ,d d.B fo"kik;h&n";r dekj] ykd Hkkjrh idk'ku] bykgkcknA

2- dgkfu;k¼ vk/kkj p;u&Hkh"e lkguh] vk/kkj ifCyd'ku] ipdykA

3- lLej.k¼ vrhr d pyfp=&egknoh oek] jk/kkd".k idk'ku] ub fnYyhA

ukV ¼

¼d½ bl ikB;p;k e dy feykdj rhuk dk0; dfr;k e l 10&10 vdk d N¼ 0;k[;k'k iN tk;xA Nk=k dk doy rhu dh gh lnHk ,o dk0; lkUn; lfgr 0;k[;k djuh gkxhA

¼[k½ rhu dfr;k e l de l de vkB leh{kkRed i'u iN tk,x ftue l Nk=k dk 15&15 vdk d pkj i'uk d mÙkj nu gkxA

fo'k"k ¼ Nk=k dk iR;d dfr e l de l de ,d i'u vo'; djuk gkxkA

¼x½ **vkrfjd eY;kdu** vd ¼ 10

lgk;d iLrd ¼

1- v/kk ;x ¼ iFk vkj in'ku] t;no rutk] ok.kh idk'ku] ub fnYyhA

2- vU/kk ;x vkj Hkkjrh d vU; ukV; i;kx ¼ t;no rutk] ufpdrk idk'ku] ub fnYyhA

3- vU/kk ;x ¼ ,d foopu] Mk- gjh'pUn oek] uo Hkkjrh 'kdj ifr"Bku] ub fnYyhA

4- fgUnh dgkuh vUrjx ifjp; ¼ jkenj'k feJ] u'kuy if

prFk ikB;p;k **i.kkd % 90$10 100**

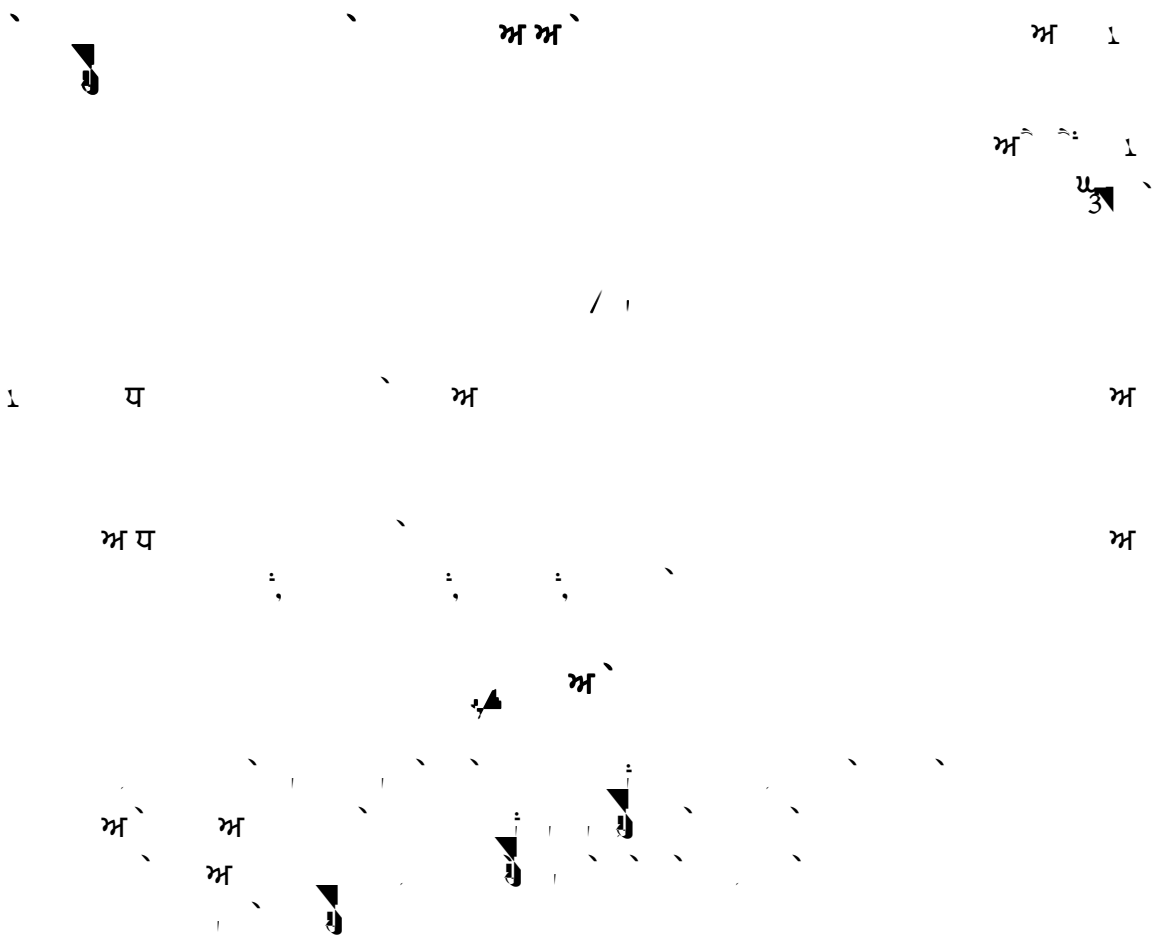
le; % 3 ?k.V

¼v½ dk0; 'kkL= **vd % 60**

1- Nn % Hkkt xi ;kr] ekfyuh] eUnkØkrk] f'k[kfj.kh] vghj] ekuo] cjo vd% 20

2- vydkj% vU;kfDr] rY; ;kfxrk] mYy[k] 0;kt] vuUo;] foHkkouk] vd% 20

B A B c HO OUR TH RD Y AR Y ABU



B A B c HO OUR TH RD AR ABU

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G ubba e K ah by au a na Abdu K a a Azad

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u a a e G ubba e K ah by Abdu Qav Da nav ava ab e o ak ba a a U du Baza De h6

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u k aha Ta k ba U du by jaz Hu a n

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Taja uha e A a$_n$a

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9 uba ah

Taj$_n$ e Ta

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A ax a k

Note :

B A B c HO OUR TH RD Y AR Y ABU

	Ba a ce d e O	T eh Red A y o C ha Ru e qua e o do
	C ahe j B R	ode C ha –A oh H o y ee ak h n n ee u
	cyc opaed a o B a nn ca	
	Gup a R	H o y o ode C ha e ub
	K apu Ha h	C ha n o d o c D v ub D
6	u	A a y H o y o ode C ha ce o U n e
	ao T e Tu n	Co u n Ru e C ha
8	c A eavy He n y	T eh ode H o y o C ha
9	c ho n	C he e Revo u o n
	u n C eh	T eh o ca H o y o C ha ce o U n e

B A B c HO OUR TH RD Y AR Y ABU

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C ha Re a on w hak an and pac on nd a

C ha Re a on w dn eh ne bbou n cou n e

C ha Re a on w hehU A

C ha Re a on w Ru a

De ence o en a o C ha

C ha ode n za on o a

C ha uc ea eapon Deve op en

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Da v H a yan B unde T ahke and Co Bo bay

G ha ou B T ehC hee eop e be

B A B c HO OUR TH RD AR ABU

n ah K K ob e o De e nce o ou nd a A a Rawa ub a pu

8 T a e a nk a nd Twe n e App a a ea e de n e d a nd co o n o ndo n
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& A na y nd a a e c A na y

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T eh n ue o a e c a y Ba a nce o ndo n
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B A B c HO OUR TH RD AR ABU

Any two papers from the following :

oc a and Cu u a T end n ode n nd a

o ca Deve op en n U A 86

o ca Deve op en n Ru a 8 9

ax a k

T eb y 9 a k

n e na A e en a k

T e H

B A B c HO OUR TH RD Y AR Y ABU

The War of Independence : Cau e Co$_n$ eque$_n$ce T eh eace T ea y

The Making of the Constitution : ede a Co$_n$ve$_n$ o$_n$ T eh a ewo k o ehCo$_n$ u o$_n$ a$_n$d a ca o$_n$

The New Nation : Ad n a o$_n$ o Geo e a h o$_n$ T oh a e e o$_n$ T eh a o 8

Emergent Nationalism : o e n o cy o a e o$_n$ oe

Westward Movement : a u e a$_n$d e u o eh e wa d ove e$_n$

6 *Expansionism in American Politics :* a$_n$ e De ny Cau e a$_n$d e u o A e ca$_n$ ex ca$_n$ a

The Growth of Social Idealism : duca o$_n$ c e$_n$ce a$_n$d Tec hno o y

8 *Civil War :* Cau e Ro e o Ab a ah nco n n ehC v a

n n

He$_n$ y Ba o d a ke	*The United States of America : A History* 96 Rep n c e$_n$ c Book A e$_n$cy Ca cu a 9 6
R c ahd Cu e$_n$ & O eh	*History of United States : A Survey,* A ed A K$_n$op ew Y o k 96
u u a	*A History of United States Foreign Policy,* e$_n$ ce Ha eco$_n$d

Liberalism and Reaction : A exa$_n$de c oha

Modernisation of Russia : A exa$_n$de A exa$_n$de & c oha

Russia and the Far East : $_n$e ve$_n$ o$_n$ $_n$C ha o$_n$ o a a$_n$d a$_n$c uh a

Background of Russian Revolution 1905-1917 : Revo u o$_n$ o 9 Ru a o$_n$ eh eve o eh Revo u o$_n$ o 9 – o y oc e y co$_n$o y e$_n$ n Co$_n$ bu o$_n$ o eh Revo u o$_n$

Causes of the Russian Revolution and its Aftermath : T eh eb ua y Revo u o$_n$ a$_n$d eh ov o$_n$a Gove $_n$ e$_n$ eh Bo eh k Oc obe Revo udo$_m$ a o$_n$ c 8 eh Bo

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a o n A n e n ea n n a n d Re eva n ce

b Deco o n za o n a n d A o A a n Re e

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e e Ca voco e *World Politics Since 1945* o n do n o n a n 9

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The syllabus has been divided into four units.

T ehe ah be 9 que o n n a T eh que o n ah be oh a n we ype co n a n n oh que o n p ead ove ehw ohe y abu a nd eac ko be a n we ed n abou o wo d T ehca nd da e equ ed o a e p a ny 9 oh a n we ype que o n e a k eac h ah ca y 8 a k a nd ah be a que o n Re o ehpape ah co n a n u n ac hn ah awe que o n a nd eh ca nd da e ah be ve n n e n a c ohce e ehca nd da e ah a e p o ne que o n o eac Un – n a o 8 a k eac h

T ehpape a a c ea n u nde a nd n abou ehevo u o n o po ca ohu hn ode n nd a w hpec a e e e nce o eh a ed p ko op eh

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B A B c HO OUR TH RD Y AR Y ABU

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The syllabus has been divided into four units.

T ehe ah be 9 que o n n a T eh que o n ah be oh a n we ype co n a n n oh que o n p ead ove ehw ohe y abu a nd eac ho be a n we ed n abou o wo d T ehca nd da e equ ed o a e p a ny 9 oh a n we ype que o n e a k eac h ah ca y 8 a k a nd ah be a que o n Re o ehpape ah co n a n u n ac hn ah awe que o n a nd eh ca nd da e ah be ve n n e n a c ohce e ehca nd da e ah a e p o ne que o n o eac hn – n a o 8 a k eac h

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B A / B c HO OUR TH RD Y AR Y ABU

K e h u n c h *Introduction to Social Research,* o n do n a e

6 ap o a n Ro e ha n d Ta ek a oud *Problems and Methods in the Study of Politics,* Ca b d e Ca b d e U n ve y e

Va n ve a ep eh n *Guide to Methods for Students of Political Science,* aha Co n e U n ve y e 99

8 Goe z Ga y *Social Science Concepts : A User's Guide,* n ce o n n ce o n U n ve y e 6

9 C e we o n h *Research Design : Qualitative, Quantitative*

A n a c h
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oc a a n d o ca dea o Ga n d ha n d h ucce o

n

Ba n d yhopad ya *Political and Social Thought of Gandhi,* Bo bay 969

Geo e c heh *Marxism : An Historical and Critical Study,* Rou ed e a n d K e a n au o n do n 96

oe O u va n *Conservation* a n e ew Y o k 9 6

a nn n D *Liberalism* a n e ew Y o k 9 6

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A A A A

The syllabus has been divided into four units.

T ehe ah be 9 que o n n a T eh que o n ah be oh a n we ype co n a n n oh que o n p ead ove ehw ohe y abu a n d eac ho be a n we ed n abou o wo d T ehca n d da e equ ed o a e p a n y 9 oh a n we ype que o n e a k eac h ah ca y 8 a k a n d ah be a que o n Re o ehpape ah co n a n u n ac hn ah awe que o n a n d eh ca n d da e ah be ve n n e n a c ohce e ehca n d da e ah a e p o ne que o n o eac Un – n a o 8 a k eac h

T hpape a o n oduce o eh ude n eh ajo eh e o e e n o ca T ohu h T hw be do n e by ak n a n n dep hudy o ehkey hke o h ad o n

Hobbe
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Rap eh D D Hobbe *Morals and Politics,* o n do n Geo e A e n 9 8

Dav d acde a n *Marx,* o n do n o n a n a ode n a e e e 98

a e n a z *Man and Society,* Vo ew o k o n a n 98

Ha C

a ke n o ajo a cu u a co od e n nd a ood a n co e c a c op ce expec a o n
a nd p ce u nce a n e p ce ab za o n ea u e na nce o a cu u a a ke n

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A K a h n & V Geo e — *Agricultural Marketing and Price Policies,* A ed ub eh ew De h 98

A K a h n & D Tya — *Agricultural Price Policy in India,* A ed ub eh ew De h 98

Da a C Da h & e e a Hu od — *Market and Price Analysis – The Agricultural Industries,* cG aw H Book Co pa n y 9

n n

R c ahd e o n — *Marketing of Agricultural Production,* ac a n ew Y o k 968

Rajba n K au — *Agricultural Pricing Policies*

B A B c HO OUR TH RD Y AR Y ABU

o ney a nd nea o ney De a nd o o ney qua n y a nd ca lba a nce eb e o o ney a e deve op e n n eh eb y o o ney ed a n a nd Gu ey a nd aw app oac eh

Supply of Money : Co po ne n & de e na n o ney u p e uc u e o a e o n e e app oac eh a nd u nc o n eu a y a nd no n neu a y o o ney n e a o n o eb y o va ue a nd eb y o o ney

Banking : C ed c ea o n co e c a ba nk eh u nc o n a nd po a nce Ce n a ba nk n u nc o n a nd ec nique o o ne a y a na e e n

na nc n n u o n a nd eh o e Ro e o no n ba nk n na nc a n e ed a e o ne a y po cy n nd a Objec ve a nd n u e n

n e na o na o ne a y Coope a o n n e na o na o ne a y u nd n e na o na Ba nk o Reco n uc o n a nd Deve op e n n e na o na na nce Co po a o n n e na o na Deve op e n A oc a o n A an Deve op e n Ba nk a nd eh n e na o na n u o n

n

ucke D C *Money and Banking.*

T oh n R *Introduction to Money and Banking.*

a d e D *The Demand for Money : Theories and Evidence,* A ed ub eh ew De h 9

Gup a B *Monetary Planning in India,* C ahd ew De h

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B A / B c HO OUR TH RD Y AR Y ABU

ca y 8 a k a n d ah be que o n Re o ehpape ah co n a n u n ac hu n ah ahve que o n a n d ehca n d da e ah be ve n n e n a c ohce e ehca n d da e ah *attempt one question* o eac Ub n – n a

De n o n a n d cope o eco n o e c T eh e odo o y o eco n o c e ea c h pec ca o n a n d e a o n o a n eco n o e c ode Ra n do va ab e a n d p obab y d bu o n Ba c co n cep u n b a ed n e e c e n cy a n d co n e n cy

Single Equation Models : O d n a y ea qua e a o n

Testing of Hypothesis : Ba c Co n cep Type a n d Type e o p e a n d co po e yhpo eh a n d e ax u ke okod e a o n

T ehGe n e a n ea Re e o n ode n a x o a o n a n d p ope e o ehe a o Te o n ca n ce o coe c e n a a Co e a o n Coe c e n

Multicollinearity : de ec o n a n d o u o n

Heteroscedasticity de ec o n a n d o u o n

Dummy Variables : T ehdu y va ab e ap n e p e a o n o ope a n d n e cep

Lagged Variables : U e n eco n o c a o n ob e Koyck a n o a o n a a a n d ock adju e n ode

a o n o de a n d u n c o n

a o n o co n u p o n u n c o n

n n

o n ho n

Econometrics Methods, n d d o n cG aw H ew Y o k 98

Guja a Da oda

Basic Econometrics, cG aw H ew De h

B A B c HO OUR TH RD Y AR Y ABU

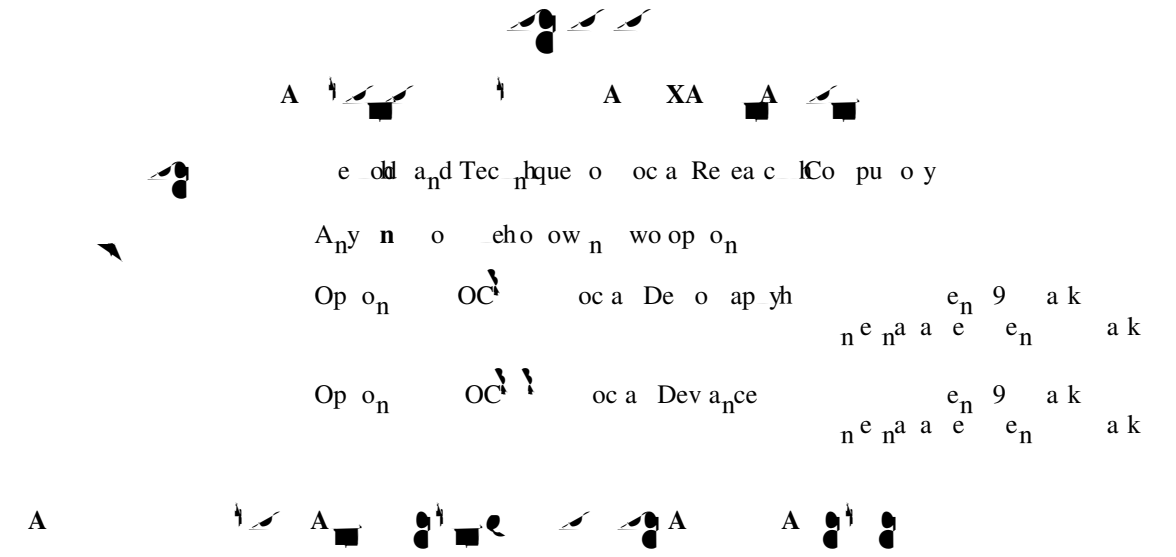
n n

K e n da G & A u a *Advanced Theory of Statistics,* Vo & G n a n d Co
ed o n do n

n a o D *Econometric Models and Applications,* e n ce Ha

adda a G *Econometrics,* ew De h cG aw H 9

a K *Topics in Applied Econometrics,* o n do n B ay H



e old and Tec nique o oca Re ea c hCo pu o y

Any n o eho ow n wo op on

Op on OC oca De o ap yh e n 9 a k
n e na a a e e n a k

Op on OC oca Dev ance e n 9 a k
n e na a a e e n a k

ax a k
T eb y 9 a k
n e na A e e n a k
T e H

Note :

o w en pape eh ude n w be equ ed o a e p ve que on n a Que on o w be co pu o y and w cove ehe n e y abu n add on o ude n w a e p e ay ype que on one o eac h eh ou un

Que on o w be co pu o y co p n o oh an we ype que on w co n o oh an we ype que on o a k eac hou o w h eh ude n a e equ ed o a e p 9 oh an we ype que on 9 8 a k

On an ave a e ohu a e o be devo ed o eac hn

Que on o o X w be on an we que on wo que on o eac hn w h e na c ohce co n n o 8 a k eac h 8 a k

T eh ude n w be n oduced w hba c e old and ec nique n oc a e ea c hT ehobjec ve o h cou e o a a ze eh ude n w h ehba c e e e n o c e n c e old va ou e old o da a co ec on and oc a ea u e e n

A n A A

ax a k

T eb y 9 a k

n e n a A e e n a k

T e H

Note :

o w e n pape eh ude n w be equ ed o a e p ve que o n n a Que o n o w be co pu o y a n d w cove eh e n e y abu n add o n o ude n w a e p e ay ype que o n o n e o eac h eh ou u n

Que o n o w be co pu o y co p n o oh a n we ype que o n w co n o oh a n we ype que o n o a k eac hou o w h eh ude n a e equ ed o a e p 9 oh a n we ype que o n 9 8 a k

O n a n ave a e ohu a e o be devo ed o eac h n

Que o n o o X w be o n a n we que

Mortality :

B A B c HO OUR TH RD Y AR Y ABU

B A / B c HO OUR TH RD Y AR Y ABU

Co n o n Dev a nce oc a za o n ea n a nd A e nc e oc a Co n o ea n a nd A e nc e
Co n o n C e Ro e o o ce aw a nd ud c a y

e ec ed ob e o Dev a nce ex Dev a nce uve n e De nque ncy le Co a C e Cybe C e

n n

Becke Howa d — *Outsiders: Studies in the Sociology of Deviance,* G e nco ee e 98

e e R & V w e ed — *Social Deviance* ew Y o k B pp nco Co 9

Ha a a bo — *Sociology – Themes & Perspectives,* De h Ox o d U n ve y e 98

K e y De o H — *Deviant Behaviour: Readings in Sociology of Deviance* ew Y o k a n e 9 9

aw o n T & T Hea o n — *Crime & Deviance,* ew De h ac a n 999

6 e a pe nce — *Foundations of Modern Sociology* ew e ey

B A / B c HO OUR TH RD Y AR Y ABU

o nh G a n — *Social Problems as Human Concern,* a n a nc co Body & a e ub h n Co pa nY 9 6

Rub n o n e nbe — *Studies of Social Problems,* ew Y o k Ox o d U n ve y e 9

Ru h n a A ed — *Deviant Behavior & Social Process:* Ra nd c a y Co e e ub Co 98

B A B c HO OUR TH RD AR ABU

n n

Co p e e o k o wa	V veka$_n$a$_n$da e eva$_n$ po o$_n$ Adva a A h Ca cu a
Ta o e	*Religion of Man,* U$_n$w $_n$ Book o$_n$do$_n$
B ah ac ahyya K C	*Studies in Philosophy.*
A bedka B R	*Writings and Speeches,* Gove $_n$ e$_n$ o a aha a Bo bay
Gau a	*Samaj Darshan,* Ha ya$_n$a a hya Akade y C ah$_n$d a h

T u Tiab e

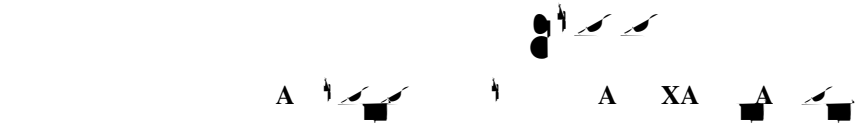
8 opo o$_n$a Ca cu u

9 Qua$_n$ e a$_n$d opo o$_n$a u$_n$c o$_n$
ed ca e Ca cu u

n^{duc} ve o c
obab y
c e$_n$ c e od
aw a$_n$d xp a$_n$a o$_n$

n **n**

v n Cop *Introduction to Logic,*



a o n oduce eh ude n ho y po a nce a nd c a ca o n o p yc oho ca
e n a nd p ov de eh w hk nowed e a nd p ocedu e o e co n uc o n a nd
a nda d za o n

eda o y o ehCou e o k

8 ec u e nc ud n expe ec u e
a n e n d cu o n a nd e na

T ehe ah be 9 que o n n a ve que o n

- *Reliability and Validity :*

  Reliability : Co$_n$cep Type ac o A ec $_n$ Re ab y

  Validity : Co$_n$cep Type ac o A ec $_n$ Va d y Re a o$_n$ be wee$_n$ Re ab y a$_n$d Va d y

- *Interpretation of Test Scores :*

  Criterion Referenced Scores : Co$_n$ e$_n$ Re e e$_n$ced a$_n$d Ou co e Re e e$_n$ced co e o Re e e$_n$ced co e Co$_n$cep o o Type o o e ce$_n$ e ca e a$_n$d T ca e

Note : T ehu e o $_n$o$_n$ p o a ab e ca cu a o a$_n$d a ca ab e a owed $_n$ ehexa $_n$a o$_n$

oce o Cou n e n n oduc o n o ajo A ea o Cou n e n Voca o n a a n d a y Cou n e n

a u e a n d H o y o O a n za o n Be a v ou

a e e o O a n za o n a Deve op e n

Communication : a u e ode a n d Type

A

A A XA A

A A

ax a k

Te na xa 9 a k

n e na A e en a k

T e Hou

To unde and ehp eva en ue n en v on en oc e y and eco no y and o p ov de a eo ap da n e p e a on w hpec a e e ence o nd a

n n

Applied Geography : ea n n and co ncep

ea n n na u e cope and n ca nce o app ed eo ap yh Co ncep o p a nn n e on Re ona a on c eh e w ke e ence o eco no c e ona a on

ndu a oca on T eb y o ebe and app ca on n ndu a p a nn n

Ce n a ace T eb y and app ca on n oca on o ce n a p ace

A cu u a oca on T eb y and app ca on n a cu u a oca on

G ow ho e T eb y and app ca on n e ona deve op en p a nn n

Applied Geography : e obl ec nique and co n bu on

Ca o ap ch ec nique o do c ohop e h adua ed c c e opu a on and and u e app n Qua n a ve e obl and ec nique o c op co b na on un c o

e d u vey o u a a d u ba a du e

Ru a a du e ud e u ba a d e o a p a n n du a p a n n a u e o e ou ce a a e e a d p a n n

Note : A co pu o y que o co a n n oh a we ype que o ah be e cove eh w ohe y abu T eh ude ah a e p a y pa abou wo d eac h ac pa w ca y a k o a a k

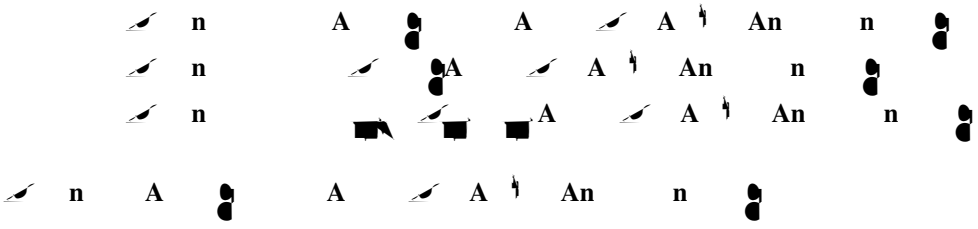
T ehw ohe y abu w be d v ded o U que o w be e ou o ehw ohe y abu o eac u T eh ude w be equ ed o a e p o e que o o eac h u a d eac que o w ca y a k T ehe w be add o o ehco pu o y

89 89 6 e 8 89 6 que B a 8 89 u 96 T a R9 89 8 6 a 68 R 9 9 8 6 u 8 a A e 69 98 T e h C 8 9 a 8 T 89

8 6 9 89 6 o 6 9 6 8 d 8 89 T 8 6 8 a 69 68 e 8 * 96 8 6

- xpo u e o ed a
- a o$_n$a ve Yea a$_n$ docu e$_n$ a$_n$d pub ca o$_n$ e a ed o p a$_{nn}$ n
- e d wo k e a ed o a$_n$d–u e a$_n$d o eh oc o eco$_n$o c ue

: Any one of the following options :



ax a k

Te $_n$a xa 9 a k

Ac ca ev ew o he ey a cu u a c a ca o n

C ahac e c and wo d pa e n o eh o ow n

Subsistence Types of Agriculture : o ad c ehd n h n cu va o n ud e n a y ede n a y a e n e n ve ub e nce a e ub e nce c op and ve ock a n

Commercial Types of Agriculture : ve ock and c h n co e c a p a n a o n a n co e c a a n a n xed a n co e c a da y a n

Note : A co pu o y que o n co n a n n oh a n we ype que o n ah be e cove n e w ohe y abu T eh ude n ah a e p a ny pa n abou wo d eac h ac pha w ca y a k o a a k

T ehw ohe y abu w be d v ded n o U n hque o n w be e ou o ehw ohe y abu o eac hn T eh ude n w be equ ed o a e p o ne que o n o eac u n and eac hque o n w ca y a k T ehe w be n add o n o ehco pu o y que o n a e a n u be

n e na a e e n ay nc ude w e n a n e n nap e pa c pa o n n d cu o n n ehc a e pape a e nda nce e c

y o n *Agricultural Geography,* G Be & o n o n do n 96

T eh eac eh ohu d p e eh ude n ehove a po a nce o a cu u e n eh oba pe pec ve T eh wo d a c ah n n a nd pac e o n a cu u e opu a o n nc ea n a nd de a nd o a cu u a p oduc a o o n eh nc ea e Co n a y o eh a a nd a e dec ea n ah nece a e n u o n o ec nbo o y n a cu u a ec o cau n e nv o n e n a po u o n T eh eac eh ohu d n e ac w hude n o n a d ue xa p e o n e bhou n a ea ay be ve n o eh ude n o be e pe cep o n

n A A An n

ax a k

Te n a xa 9 a k

n e n a A e e n a k

T e Hou

- To a a e eh ude n w h eh eo ap da ac o w d h ahve a bea n o n eh po ca / ad n a ve o a n a o n o pace
- To e n ah nce awa e n e a o n eh

Concepts of Frontiers and Boundaries : C a ca o n o bou n da e

Global Distribution of Political Power : V ew o ack nde a ah a n d pyk a n a n d eh co n e po a y e eva n ce

International Tension : de n ca o n o e n o n a ea a n d ac o co n bu n o e n o n n d e e n a ea w hpec a exa p e o dd e a a n d n

e co R V — *The Geography of Frontiers & Boundaries,* A d ne v d C ha o 96

Va ke nbe V and — *Elements of Political Geography,* e n ce Ha o nd a ew De h 96

- e d wo k o u nde and ehpo ca / ad n a ve bou nda y co n u a o n and peop e p ob e and eh pe cep o n
- Co n u po ca ap a e ca e a ca e
- A a e and a c ha eco d
- Co ec e eva n new pape e o oup d cu o n
- epa e p n up boa d o d p ay o po a n eve n o eopo ca n a u e

n A A An n

ax a k

Te na xa 9 a k

ne na A e e n a k

T e Hou

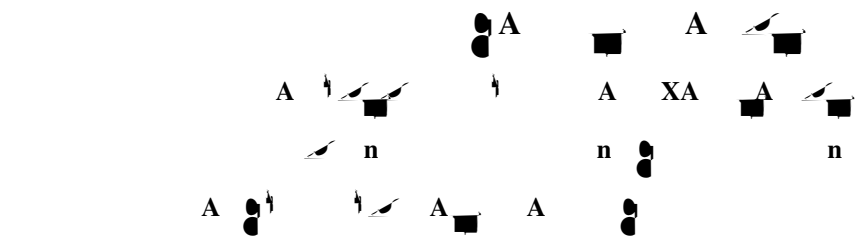
- To u nde and eh n ca nce o e nv o n e n and n e e a o n ph w ha n
- To u nde and eh po a nce o o and ac o e po n b e o o e o o n
- T eh po a nce o e ne y ou ce o e and w d e and eh p e e va o n o be ud ed

n n

Environment and Geography : Re a o n ph be wee n eo ap yha nd e nv o n e n de n o n a nd cope o e nv o n e n a eo ap yh n ca nce o e nv o n e n a ud e

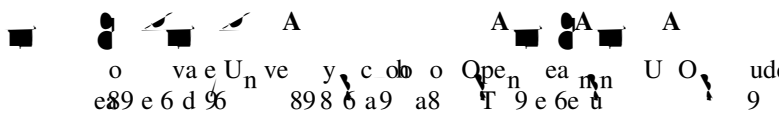
The Environment : C ahac e c co po ne n and u nc o n n co ncep o eha yhe nv o n e n

B A B c HO OUR TH RD Y AR Y ABU



ax a k
T eb y 9 a k
n e n a A e e n a k
T e Hou

T ehobjec ve o ehpape o ve eh ude n a n n dep h nde a nd n abou eh na u e a nd cope o
oc a Re ea c h e ob o oc a Re ea c h da a co ec o n a nd da a p oce n wou d a o acqua n
eh ude n w h ba c o a p n a nd a ca e ob nc ud n ea u e o ce n a e nde ncy
d pe o n co e a o n a nd C h qua e Te



B A / B c HO OUR TH RD Y AR Y ABU

a p n ea n n Type e a nd De e
eque ncy D bu o n – ea n n a nd ep
ea u e o Ce n a Te nde ncy – ea n ed a n a nd ode

ea u e o D pe o n – a nda d Dev a o n
Co e a o n – K a ea o n
C h qua e

n n

C A o e a nd K a o n G *Survey Methods in Social Investigations* o ndo n B 9 9

C e z & O eh *Research Methods in Social Relations* ew Y o k R ne ah & n o n 96

Gup a *Statistical Methods* ew De h u a n C ahd Rev ed 98

Goode a nd K Ha *Methods in Social Research* U A cG aw H 99

n

A uh Bow ey *Elements of Statistics* ew Y o k ap e 6 d 9

G oh ah nd C ohwd h

B A B c HO OUR TH RD Y AR Y ABU

ax a k
T eb y 9 a k
n e n a A e e n a k
T e Hou

T ehobjec ve o ehpape o ve eh ude n a n n dep h h n o ehva ou a pec a n d ac o
a ec n n d v dua n e pe o n a a n d oup be a v ou n o a n a o n T ehkey a ea n c ude udy o
uh a n be a v o a n d co n cep ke A ude o a e eade p o va o n a n d O a n za o n a C ah n e

o va e U n ve y c o o Ope n ea n n U O ude n w oh a ve n o bee n a e ed
ea e o eh n e n a a e e n eh a k ecu T udu ope u 6 9 e pe

B A / B c HO OUR TH RD Y AR Y ABU

B A / B c HO OUR TH RD Y AR Y ABU

Goe & Goe *Principles, Problems and Prospects of Coop. Admn.*, De h e n
B B 9 9

K a a K *Cooperative Management*, De h Deep a n d Deep 986

K n h a wa O R *Fundamentals of Cooperative*, De h C ah n d a n d Co 9 8

6 a uh B *Cooperation in India*, A a a hya B ahwa n 9

n

Dw ved R C *Democracy in Cooperative Movement*, a o n a Coope a ve U n o n
o n d a n ew De h 98

G *Agricultural Cooperatives*, De hV ka 98

C A *Experts Consultation on Cooperative Member Education*, De l
CA 98

C A *Readings in Cooperative Management*, De h CA 9

O *Cooperative Management and Administration*, Ge neva O

T ehca$_{n}$d da e ah a e p que o$_{n}$ $_{n}$a o$_{n}$e co pu o y a$_{n}$d o$_{n}$e eac ho ou u$_{n}$ T e que o$_{n}$ ah co p e o oh a$_{n}$ we ype que o$_{n}$ cove $_{n}$ ehw ohe y abu o be a$_{n}$ we ed n wo d eac hou o w h ehca$_{n}$d da e wou d be equ ed o a e p a$_{n}$y 9 ac dque o$_{n}$ w ca y a k Re o ehpape ah co$_{n}$ a $_{n}$ u$_{n}$ eac h$_{n}$ ah$_{n}$ wo que o$_{n}$ ou o w h ehca$_{n}$d da e wou d be equ ed o a e p o$_{n}$e ac dque o$_{n}$ w ca y 8 a k

Public Enterprise : ea$_{n}$ n a$_{n}$d vo u o$_{n}$

Public Enterprises in India : Ra o$_{n}$a e a$_{n}$d Ro e

Ad n a ve a$_{n}$d a$_{n}$a e a ob e o ub c $_{n}$e p e

Organisational Patterns : Depa e$_{n}$ a U$_{n}$de ak $_{n}$ ub c Co po a o$_{n}$ a$_{n}$d Gove $_{n}$ e$_{n}$ Co pa$_{n}$y

Board of Directors : Ra o$_{n}$a e Co$_{n}$ u o$_{n}$ Type a$_{n}$d u$_{n}$c o$_{n}$

e a ve Co$_{n}$ o ove ub c $_{n}$e p e

Gove $_{n}$ e$_{n}$ Co$_{n}$ o ove ub c $_{n}$e p e

e o a$_{n}$ce o ub c $_{n}$e p e

ub c $_{n}$e p e Re o $_{n}$ce 99

e o a$_{n}$du o U$_{n}$de a$_{n}$d n

Privatization : ea$_{n}$ n Ra o$_{n}$a e Ac dve e$_{n}$ a$_{n}$d a u e

n n

B a uh *Public Enterprise Management* ac a$_{n}$ ew De h 999

a d ha ka h *Administration of Public Enterprises in India* H a aya ub h$_{n}$ Hou e u ba

ax a a $_{n}$ *Public Enterprise Management and Privatisation* C ahd ew$_{n}$ De h

B A / B c HO OUR TH RD Y AR Y ABU

nvon en – Concep and Co pone n

nvon en Ad n a on – ea n n a u e and cope

u a nab e Deve op e n – Con cep ue and a e y

nvon en ob e and T eba –A a e and Hu an e e e n and o e

pac o Deve op e n U ban za on and ndu y on nvon en

O an a on and ac he y o eh Gove n e n a eh Un on eve o nvon en o ec on

O an a on and ac he y o eh Gove n e n a eh a e eve o nvon en o ec on

ou on Con o Boa d –O an a on unc on and Ro e

nvon en a o cy w hpec a e e e nce o a e A and o e Con u on a ov on e a ve ea u e

nvon en a o e n nd a opu a on ab a on o e Cove De o e a on d e o ec on Recyc n o a e

nvon en and G oba ue Con ven on Dep e on o Ozone aye G oba a n

nvon en duca on Awa ene and dh Ro e o GO n nvon en o ec on and Con e va on

n

n d a Ce n e o c e nce a n d n v o n e n — *The State of India's Environment : A Citizen's Report* V ah B ahwa n ew De h 98

K u a a e h — *Air Pollution and Environment Protection : Legislative Policies, Judicial Trends and Social Perceptions* ew De h a 999

8e 99 6 9 8 6 9 8

Note : T eh ude n ah ave o op o wo pape o hd yea exa n a o n ou o eh o ow n ou pape

n

ape A c aho o y

[redacted]

a Ha appan a c hec u e – Town p annn and po an bu dn

b Ha appan cu p u e – one and b onze

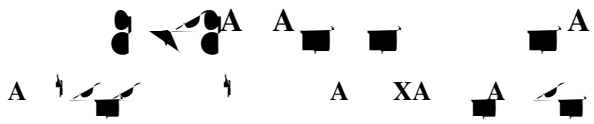
[redacted]

a upa A c hec u e – a en ea u e upa o anc hand A a ava

b Rock cu A c hec u e– a en ea u e o a R k Cave Ajan a and o a

a

a



To a a k
T eb y 9 a k
n e n a A e e n a k
To a Hou

Note : T ehe w be que o n n a and a ude n w a e p ve que o n c ob n a ea o ne o eac h n U n V w be co pu o y and ah w be o a k U n V o eh que o n pape w be ba ed o n U n V o eh y abu Re a n n ou que o n w be o a k eac h

De n o n w hu exp a na o n o eho ow n

ah A n a K n an Bad ah od A ap a Daa n u a ba nd ayaka e Ad K uad B ad
G ahee ee nd K a n K ahka u k K a ava n Va eyka

Co ncep o Ae ehc n u c

De n o n a nd nc p e o Ae ehc o u c a nd po a nce

Top c o ay

u c a nd ne A

ode n e obl o Teac h n u c

a n ee a e a n

v Ro e o u c n a o na n e a o n

v ok a n ee

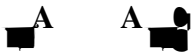
K now ed e o u ca ap ude a nd u ca a e n

K now ed e o ood qua e o a u c pe o e Voca o a n n u e n a

B A B c HO OUR TH RD Y AR Y ABU 9

b O n e D ah a n Gayak A n a k

Tehy abu o Hoe cence o BABc Honou Thld yea ahbeen



A A XA A

n

n n n a k

T e H

a k

Note : T ehpape w co$_n$ o he ec o$_n$

ec o$_n$ A Que o$_n$

ec o$_n$ B Que o$_n$

ec o$_n$ C Que o$_n$

Co$_n$ e$_n$ o ec o$_n$ A a$_n$d B a e $_n$d ca ed $_n$ eh y abu o ehpape ec o$_n$ C w co$_n$ o o$_n$e que o$_n$ ca y $_n$ pa o oh a$_n$ we ype cove $_n$ ehw ohe y abu T ehca$_n$d da e w a e p eh co pu o y que o$_n$ a$_n$d wo que o$_n$ eac h o ec o$_n$ A a$_n$d B ve que o$_n$ n a A que o$_n$ ca y equa a k

A n n n

n A n

Number Systems :
B $_n$a y Hexadec a a$_n$d oc a $_n$u be y e n e co$_n$ve o$_n$ a$_n$d a ha c ope a o$_n$ B $_n$a y ac o$_n$ a$_n$d $_n$e a ve b $_n$a y $_n$u be oa n po n ep e e$_n$ a o$_n$ ob e o o Re e e$_n$ce

Binary Codes :
BCD 8 X G ay code o de ec n a$_n$d co ec n code ob e o 8 o Re e e$_n$ce

Boolean Algebra :
A D OR OT xc u ve OR ope a o$_n$ Boo ea$_n$ de$_n$ e De o a$_n$ eb e a$_n$d p ca o$_n$ o Boo ea$_n$ u$_n$c o$_n$ A D OR Ga e e a ve o c ob e 8 o o 6 o Re e e$_n$ce

Logic Hardware :
D ode B T T w c h dev ce o c pec ca o$_n$ o c a e a$_n$d eh pe o a$_n$ce

Combinational Logic :
n e a$_n$d ax e app n O O o xa p e Decode Code co$_n$ve o u adde ob e 6 o 6 o Re e e$_n$ce

n

Digital Electronics : An Introduction to Theory and Practice by H Go ha nn e n ce Ha o nd a v d

udy o coup n ac o be wee n wo pe n du u n depe n de n ce o n coup n a a n d d a n ce o coup n d a d o e a x o o c a o n

V co y o a by o a n cy n de e o d

De e n a o n o e a n co n a n

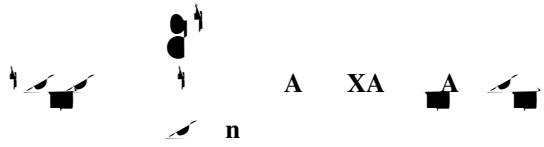
B p de e n a o n o wave e n a n d d k n e o a h n a n pa e n e a

6 Ve ca o n o e n e aw o e ec o n

e n e d ac o n a a n e u n a e bea

8 C a a c e c o ve n vo a e doub e a n d p e

9



		Marks	
	Lecture Hours	*Theory*	*Internal Assessment*
ape no a n c C eh y		9	
8 9 9 89 ap6 V 8 9 6 yh ca 6 T T*Td 9 n 6 89 6 e 8 n 6 a 8			

ec u e

Co p exe o a o a c y e w ha n o n e a O de c p o n o bo nd n n e oce ne
udy o coo d na ve u n a u a o n ox da ve add o n a nd n e o n eac o n n O a no e a c
eho e no n o ux o na y n O a no e a c a nd c ahac e za o n

n n ec u e

a u e a nd c a ca o n o nad ub u o n eac o n app ca o n o V B & C eb e o
p ed c eh ub u o n eac o n ec ah o a nd ep ace e n eac o n ub u o n n
oc a eb a co p exe ac d yb o y ba e yb o y ac d ca a y ed ac d yb o y a nd ac d
yb o y o c eha e ub u o n n qua e p a na co p exe T eh a n e ec & y n eh c
app ca o n O eb e a nd a n e ec ec o n a n e eac o n & eh ec ah n
o ecu a ea a n e e n ec ah n c pa wh ay o ub u o n

A A A

Examiner will set total of n questions comprising questions from each unit and n compulsory question of short answer type covering whole syllabi.

The students are required to attempt questions in all, n question from each unit and the Compulsory question.

All questions carry equal marks.

Co o n A G k n o n *Advanced Inorganic Chemistry;* 6 ed o n ub o nh ey & o n 999

Ba o o ea o n R G *Inorganic Reactions;* Rep n nd ed o n ub ey a e n 9

To a a k

T eb y 9

n e n a A e e n

To a ec u e

To eac h eh u n da e n a co n cep o C eh y a n d eh app ca o n eh y abu pe a n n o B c Ho n ou n eh ubjec o C eh y ah bee n up aded a pe p ov o n o eh UGC odu e a n d de a n d o eh acade c e n v o n e n T eh cou e co n e n ave bee n ev ed o e o e a pe u e o n o eh eac eh o eh C eh y wo k n n eh a n jab U n ve y C ah d a a h n d a a ed co e e T eh y abu co n e n a e du y a a n ed u n w e a n d c

ec u e

T ehco o da a e p epa a o n o co o da o u o n e odl o pu ca o n o co o da y e
d a y e ec o d a y a o n U a

B A B c HO OUR TH RD Y AR Y ABU

ev ne *Physical Chemistry;* d ed o n ub e n ce Ha n e na o na nc

u o n a o n *Principles of Physical Chemistry;* ed o n ub Ox o d & BH ub h n Co v d 9

C ah n d a A K *Introductory Quantum Chemistry;* ed o n ub Ta a cG aw H ub h n Co pa n y d

oo e *Basic Physical Chemistry;* ed o n ub e n ce Ha o n d a v d 986

6 A be R A *Physical Chemistry;* ed o n ub o n h ey & o n 99

B A / B c HO OUR TH RD Y AR Y ABU

A

A XA A

		Theory	*Int. Assess.*	*Total*	*Practical*	*Int. Assess.*	*Total*
T eb y ape A	B o o y o C yp o a eed a n c ob o o y a nd a n a oho y	68					
T eb y ape B	Ge ne c a nd a n B eed n B oc eh y o ecu a B o o y a nd B o ec nb o y y e a c o A n o pe a nd nv o n e n a B o o y	68					

n Teac h e odo o y nc ude e e o ec u e ak n u e o c ah a n pa e nc e CD ode de p ac ca de o n a o n ex e n o n ec u e o expe e d v d cu o n qu z co pe o n e c n p ac ca ude n wou d be p ov ded w he p e ved a e a o eh o p oho ca a nd a na o ca ud e ak n u e o c o cope a nd b n ocu a a nd ahd o n oo equ p e n e c

A Occu e nce a nd d bu o n ahu o a n za o n a nd evo u o na y e nde nc e u a uc u e o a a ce c e a o c a ca o n a nd yp ca e ho e o a ae be o n n o va ou c a e o e o a ae n uh a n we a e

n Occu e nce a nd d bu o n u a uc u e o u n a ce ce wa co po o n ode n co nce p n ehc a ca o n o u n nu o n ep oduc o n e ho e o a n oup o u n ype o u n a po e a nd ode o eh be a o n o e o u n n uh a n we a e

Co pa a ve accou n o o p oho y a na o y a nd ep oduc o n n *Riccia, Marchantia Anthoceros Funaria* evo u o n o po op yhe a nd a e op yhe c a ca o n eco o ca a pec a nd eco no c po a nce

o e A a$_{n}$d G o d A *The Comparative Morphology of Vascular Platns,* Vak e e a$_{n}$d o$_{n}$ v d 96

po $_{n}$e K R *The Morphology of Angiosperms,* B ub ca o$_{n}$ Bo bay 9

B ohjwa$_{n}$ a$_{n}$d B ah$_{n}$a a *The Embryology of Angiosperms,* ev ed a$_{n}$d e$_{n}$a ed ed o$_{n}$ V ka ub h$_{n}$ Hou e De h

6 o h B *Embryology of Angiosperms,* p $_{n}$e Ve a Be $_{n}$ 98

Ra vha$_{n}$ V., *Molecular Embryology of Flowering Plants,* Ca b d e U$_{n}$ ve y e ew Y o k 99

B A B c HO OUR TH RD AR ABU

n A n n n yh ca p yh o o ca b oc eh ca and o ecu a a pec

n T an on and p ead o p an pa ohen d ea e cyc e ep de c ode n and d ea e o eca n

n n n C eh ca b o o ca y e deve op en o an en c b ope c de p an d ea e c nc

n n n Gen e o v u en ce and av u en ce eh app ca on n e ance and u cep b y nduced e ance un za on

n o ecu a d a no den ca on o ene and pec c o ecu e n d ea e deve op en o ecu a an pu a on o e ance

A n n n n n u a on o ep de c p o a e o d a no e o e en n and a e anay o ec

x

Ca b a o n o c o cope de e n a o n o d e n o n o c oo a n u e ed ode o a n yea ac obac cya n obac e a

Cu va o n ed a o au o op h a n d eh e o op h c oo a n c ea n n o a wa e n e a ed a co p ex ed a o d ed a e za o n ba ed o n op c

o a o n o c oo a n eak n o n a a p a e / pou p a e e oh l o a o n o c o n e p e e va o n ba ed o n op c a n d

De e n a o n o ow lo a c oo a n ode o a n *Escherichia coli,* e ec o n u e n e uco e uc o e uc o e p n c p e o co o e y / pec oco o e e ba ed o n op c

De e n a o n o c ob a popu a o n ze u e ed ode o a n yea u e o ah ocy o e e a d u o n ec hque e a o n h be wee n d u o n a n d ce cou n de e n a o n o a n da d e o e ab y n ce cou n ba ed o n op c

6 epa a o n o n o ad ky co u n u n po n d bo o ud ob e va o n o n e po a eque n ce o appea a n ce o c obe v ua appea a n ce c o cop c ob e va o n ba ed o n op c

Ob e va o n o n v u n ec ed p a n y p o ba ed o n op c

8 e e n a o n by yea n ve ed ube e oh l u e o d e e n ub a e e uco e uc o e ca n e u a a c hba ed o n op c 8

x n

udy o po a n p a n pa ohe n y p o a n d oh pa a e e a o n h

o a o n a n d cu u e o p a n pa ohe n e *Colletotrichum, Fusarium, Alternaria* a n d e ab he n o K oc hpo u a e a n d eh pa ohe n c y

ec o 6 T / R8 8 T 9 Td Tj 96 T 6 6 Td Tj / R8 9 Td e 8 n 6

6 oe h a nn a nd eepe D R *Breeding Field Crops,* a n a ub h n Hou e ew De h 99

Ru e *Genetics* d o n T eh Be nja n Cu n ub h n Co nc U A 998

8 o nd *Principles of Crop Improvement,* o n a n o ndo n a nd ew o k 9 9

9 nu ad D a nd o n *Principles of Genetics* nd d o n o nh ey & o n nc U A

ah a R *Principles and Practice of Plant Breeding,* Ta a cG aw H ub h n Co d ew De h 99

A Co po o n o nuc e c ac d a nd y n eh o nuc eo de D A uc u e A B a nd o o D A de na u a o n a nd e na u a o n o D A c h a n uc u e D A ep ca o n a nd eco b na o n D A po y e a e d e e n o o R A a nd eh o e

A n A n n uc u e c ahac e c a nd c a ca o n o a no ac d po e n a nd no n p o e n a no ac d a no ac d b o y n eh G GOGAT cyc e a n a na o n pep de bo nd a nd po ypep de c ah n p a y eco nda y e a y a nd qua e na y uc u e o p o e n p o e n b o y n eh a nd e u a o n po a n a o na od ca o n o p o e n p o e n a e n p o e n de ada o n

C a ca o n uc u e o o e ep e e na ve exa p e o o no acc ah de d acc ah de po y acc ah de e eo o e e na n o e a nd ep e b o y n eh a nd de ada o n o uc o e a nd a c h

a u a ed a nd u n a u a ed a y ac d a y ac d b o y n eh ox da o n o a y ac d o a e a nd ob za o n o a y ac d a nd p d

n x n n n Ge ne o a n za o n n p oka yo e a nd euka yo e ope o n co ncep e ne e u a o n n p oka yo e a nd euka yo e nduc b e ep e b e po ve a nd ne a ve e ne e u a o n n e up ed e ne n euka yo e R A p c n R A ab y

n n A n Re c o n e ndo nuc ea e oka yo c a nd euka yo c c o n n vec o e no c a nd cD A b a e ou eh n a nd n o eh n a na y va ou ec nhque o e ne app n a nd D A n e p n n R RA D A c h o o e wa k n po y e a e c ah n eac o n D A eque nc n

n n Ce u a d e e n a o n a nd o po e ncy o a no e ne a nd e b yo e ne p o op a o a o n a nd cu u e o a c yb d za o n co na p opa a o n e ne c e n nee n o p a n vec o o e ne de ve y e ec ab e a ke a nd epo e e ne e okd o e ne de ve y a obac e u – eh na u a e ne c e n nee a e n ac dve e n n c op b o ec nb o y w hu ab e exa p e a nd p o pec

n n nc p e and u e ank and na e ype e od p nc p e o p o y and
a on na e o yb d and cu va con cep o b ocode

n An A ene a accoun o eho n and evo u on o an o pe pec a

n A o u on o a wa e and o a b e accoun o env on en a ox co o y nc dence o no e eh a and ad oac ve po u on p even on and con o o po u on oba wa n de e ca on and ozone dep e on

n n n n n n n n n n n n o ua on o op a ode

n

n n n A n A b e accoun

n n n n

ax a k
ac ca
n a e en

x n n n n

De e na on o c h o o e coun o d v d n po en o eh ce oo p and po en a n

epa a on o ka yo ype o d v n oo p ce and po en a n

De e na on o n a pec c va a on n c h o o e nu be o oca y ava ab e axa

udy o ex c h o o e and eh be av ou du n e o o a o pe and a y app op a e d oec ou p an e *Coccinia*

De ec on o an o a e n c h o o e pa n and d ju n c on cau ed by u an e n e n c u a a e a o n o n a n a pe d a o y o o a o ype

B A B c HO OUR TH RD Y AR Y ABU

x n n

C eh ca e o de o n a e ehp e e nce o a c hu a a nd p o e n n p a n a e a

To de n y eha n o ac d n a x u e by e o v n hu phape c h a o ap yho T C

To p epa e eh a nda d cu ve o p o e n a nd de e ne ehp o e n co n e n n u nk now n a p e by B u e e odl

Co o e c e a o n o R Au n o c n o

Co o e c e a o n o D Au n d p ehy a ne

B A B c HO OUR TH RD Y AR Y ABU

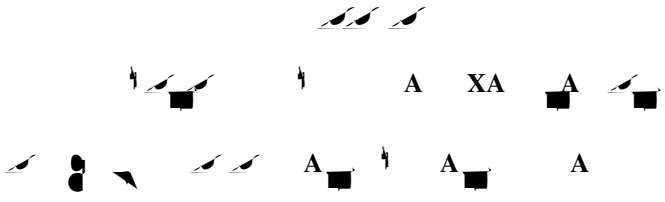
8 y aceae *Callistemon, Eucalyptus.*

9 Cucu b aceae

6 B A B c HO OUR TH RD Y AR Y ABU

6 Qua a ve de e a o o o o a c a e

B A B c HO OUR TH RD Y AR Y ABU



ax a k
T eb y 6 a k
n e n a A e e n 8 a k
T e H

Note : ne que on a e o be e Que on o co pu o y con n o oh an we ype que on cove n ehw ohe y abu w ahve pa o a k eac hTwo que on a e o be e o eac hn One que on o be a e p ed o eac hn n a ve que on a e o be a e p ed nc ud n co pu o y one o eh que on a e o be p up n o ub pa

Physiology of Male Reproductive System :

a uc u e and unc on o e ep d dy va de e en e na ve c e and p o a e and

b e en co po on pe a u a on and capac a on

Physiology of Female Reproductive System :

a uc u e and unc on o ova y ov duc u e u and va na

b Oe ou and en u a cyc e

c e za on p an a on e a on pa u on and ac a on

Neuro-Hormonal Regulation of Production :

a Gonada oh one

b Gonado op c oh one

c Hypo aha c ac o

d uc u a be ahr ou

Fertility Regulation :

a Co n acep o n a nd ode n co n acep ve ec h o y – n a u a ec ah ca c eh ca
u n o o ca a nd u ca e od a nd e za o n *in vitro* Te ube baby n

b App ca o n o e y e u a o n n ve ock

A c a n e n a o n n a a n a

k y e d

Ecosystem : udy o eco y e w ba cu a e e e nce o ehco po ne n o aqua c eco y e ood c ah n a nd ood web ow o e ne y n a ood c ah n

Physico-chemical characteristics of Freshwater Environment : Te pe a u e hcu e n o wa e de n y pH d o ved oxy e n ca bo n d ox de a nd nu e n

Freshwater zonation in a lake and stream : up a o a o a ub o a p o u nda & ne c zo ne o a ake oo zo ne a nd ap d zo ne o a ea

Classification of freshwater habitats : ea po nd ake a eh a nd wa p

yh co c eh ca c ahac e c o a ne e nv o n e n

6 *Zonation in marine habitat :* e a c a nd be n dh zo ne a nd eh o a a nd au na

Productivity : Co ncep o p oduc v y p a y eco nda y a nd e a y p oduc v y y e d a nd ca y n capac y

8 *Ecological succession :* ucce o n k nd o ucce o n c ah n e n a n a e du n yb d a c h co ncep o c ax

9 Adap a o n o aqua c o a n

Ru ne *Fundamentals of Limnology* U n ve y o T o n o e T o n o 9

Re d G K a nd ood R D *Ecology of Inland Waters and Estuaries* Va n o a nd Re n ohd ub h Co ew Y o k 9

e c h *Limnology* cG aw H Book Co ew Y o k 9

Odu *Fundamentals of Ecology* au nde Co hade p dh

h a n V G *Fish & Fisheries of India* H ndu a n ub ca o n Co po a o n De h 99

B A / B c HO OUR TH RD Y AR Y ABU

Practicals based on both theory papers :

a o n o o c n dex / co pa o n o o c n d ce a e a pec c ea e n by c eh ca o d u DTA

De o n a o n o a e a n d e a e ep oduc ve y e a n d eh a oc a ed a n d n a / abb

H o o y o e ep d dy va de e e n p o a e e n a ve c e ova y u e u a n d va n a

V udy o pe a n e n p epa a o n o ehva n a ea o uh a n e n ua cyc e a n d a / ce oe ou cyc e

V De e n a o n o ehd e e n p ahe o ehoe ou cyc e n v n a

V udy o a a a n pe o pe o y a n d pe uc u e

V De e n a o n o pe cou n n a a a w hah ocy o e e

V H o o ca exa n a o n o p ace n a

X udy o co po n e n o ake eco y e a n d az n ype o ood c ah n

X yh co c eh ca c ahac e c o e wha e e n v o n e n Te pe a u e h u b d y cu e n o wa e de n y pH d o ved O CO a n d n u e n

X e wha e zo n a o n n ake / ea a n d udy o d e e n co u n e a n k o n n ek o n

B A / B c HO OUR TH RD Y AR Y ABU

De e ne ehp ahe o oe ou cyc e n eha n a p ov ded D aw a nea a nd abe ed d a a a nd ohw o ehexa ne

De e ne eh pe cou n w haha ocy o e e n eha n a p ov ded e ehp ocedu e o owed

V De e ne e o ow n p yh co c eh ca ac o n a ve n a p e o e hwa e 6
e ehp ocedu e o owed

V Reco d b o a n a ve n a p e o a ake ake abe ed ke c eh a nd de o n a e eh o ehexa ne

V xa ne ehwa e a p e o va ou co u n e o d e e n zo ne o a ake a nd d aw abe ed ke c eh

V de n y eh pec e n / de A B C & D G ve