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राष्ट्रियसंस्कृतसंस्थानम्

(समविश्वविद्यालय:) राष्ट्रियमूल्याङ्कन-प्रत्यायन-परिषदा 'ए' श्रेण्यां प्रत्यायितम् नवदेहली

RASHTRIYA SANSKRIT SANSTHAN

(Deemed University) Accredited with 'A' Grade by NAAC

New Delhi

पाठ्यक्रमः

SYLLABUS

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी) Uttaramadhyama/Prak-Shastri (Sr. Secondary)



राष्ट्रियसंस्कृतसंस्थानम् RASHTRIYA SANSKRIT SANSTHAN 2017

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SYLLABUS

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी) Uttaramadhyama/Prak-Shastri (Sr. Sec.)

अनुक्रमणिका

		पृष्ठसंख्या
1.	उत्तरमध्यमा/प्राक्शास्त्रिपाठ्यक्रमः – परीक्षापत्रविवरणम्	5
2.	उत्तरमध्यमा/प्राक्शास्त्री —	
	प्रथमवर्षम्	9–25
	द्वितीयवर्षम्	26-59

उत्तरमध्यमा ⁄ प्राक्शास्त्रीपाठ्यक्रमः परीक्षापत्रविवरणम्

उत्तरमध्यमा⁄प्राक्शास्त्रिपाठ्यक्रमे द्वयोः वर्षयोः प्रतिवर्षम् अधोलिखितानि पत्राणि सन्ति-

उत्तरमध्यमा⁄प्राक्शास्त्रिपरीक्षा (प्रथमवर्षम्) -

पत्राणि	विषयाः	अंकाः
1.	व्याकरणम्	100
2.	साहित्यम्	100
3.	आंग्लभाषा	100
4.	हिन्दी/प्रान्तीयभाषा:	100
5.	अर्थशास्त्रम्/इतिहास:/राजनीतिशास्त्रम्/समाजशास्त्रम्/	100
	जीवविज्ञानम्/गणितम्/भूगोल:	
6.	वेद:/व्याकरणम्/साहित्यम्/ज्यौतिषम्/दर्शनम्/जैनदर्शनम्/बौद्धदर्शनम्	100
7.	संगणकविज्ञानम्	100

उत्तरमध्यमा⁄प्राक्शास्त्रिपरीक्षा (द्वितीयवर्षम्) -

पत्राणि	विषयाः	अंकाः
1.	व्याकरणम्	100
2.	साहित्यम्	100
3.	आंग्लभाषा	100
4.	हिन्दी/प्रान्तीयभाषा:	100
5.	अर्थशास्त्रम्/इतिहास:/राजनीतिशास्त्रम्/समाजशास्त्रम्/ जीवविज्ञानम्/गणितम्/भूगोल:	100
6.	वेद:/व्याकरणम्/साहित्यम्/ज्यौतिषम्/दर्शनम्/जैनदर्शनम्/बौद्धदर्शनम्	100
7.	संगणकविज्ञानम्	100
उत्तरमध्यमा/प्र	ग्राक्शास्त्री (सीनियर सेकेण्डरी)	5

पाठ्यक्रमः

Syllabus

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी) Uttaramadhyama/Prak-Shastri (Sr. Sec.)

प्राक्शास्त्री⁄उत्तरमध्यमापाठ्यक्रमः प्रथमवर्षम्

प्रथमं पत्रम् - र	व्याकरणम्		100
अभागः - लघु	सिद्धान्तकौमुदी आदितः पञ्चसन्ध्यन्तं यावत्	40	अङ्काः
बभागः - रचन	गनुवादः शब्दरूपाणि धातुरूपाणि च (अधोनिर्दिष्टा:)	60	अङ्काः
1)	अमरकोश: स्वर्गवर्ग:	10	अङ्काः
2)	शब्दरूपाणां परिचय:	20	अङ्काः
	पुंलिङ्गकाः शब्दाः-राम, हरि, भानु, पितृ, सखि, पति, गो स्त्रीलिङ्गकाः शब्दाः – रमा, मति, नदी, मातृ, नपुंसकलिङ्गकाः शब्दाः – ज्ञान, वारि, मधु, जगत्, कर्मन्, मनस्, सर्वनामशब्दाः – युष्मद्, अस्मद्, इदम्, अदस्, तद्, एतद्		
3)	धातुरूपाणां परिचयः (दशसु लकारेषु) परस्मैपदिधातवः - भू, लिख, गम्, स्था, पठ्, पा-पाने, अस्, इष् आत्मनेपादिधातवः - एध्, सह्, लभ् उभयपदिधातवः - कृ, दा		अङ्काः
4)	वाच्यपरिवर्तनम्	05	अङ्काः
5)	अनुवाद:-हिन्दीत:/आङ्ग्लत: संस्कृतम्, संस्कृतत: हिन्दी/आङ्ग्लम् (अधीतशब्दरूपधातुरूपत: अनुवादवाक्यानि)	Į 05	अङ्काः
द्वितीयं पत्रम् -	साहित्यम्		100
रघु	वंशम्, 1-2 सगौं		

तृतीयं `	पत्रम् -	आंग्लम् (English)	100
Sectio		omprehension	10 marks.
	A Pas	sage from the text followed by 5 questions each carrying 2 r	marks (5×2)
Sectio	on B : C	Comosition	10 Marks.
	Repor	rt, Writing or Composition or letter writing	
Sectio	on C : G	rammar	40 marks.
	(i)	Parts of Speech, types of sentences, Tenses, Clauses, Moo	lals. 20 Marks
		10 question out of 15 each qustion carring 2 marks (10×2)
	(ii)	Editing Tasks : Punctuation, Correction of Spellings,	
		Grammatical errors.	10 Marks
		5 questions outs, each carring 2 marks (5×2)	
	(iii)	Re-ordering of sentences	10 Marks
		One set out of 2 sets	
Sectio	on D : 1	Text Books	30 marks.
	(i)	Hornbill	20 Marks
		(a) Five out of eight short answer questions	
		each carring 4 marks	
	(ii)	Snapshots	10 Marks
		One out of three long answer questions (essay type answer with 100 to 150 words)	
Sectio	on E : E	ssay Type Question on clean India (swacha Bharat)	10 marks.
		One out of three long answer questions (essay type answer with 100 to 150 words)	
Presc	ribed H	Books :	
	(i)	Hornbill-published by N.C.E.R.T. 2008, prescribed for Co in Class XI.	entral Schools
	(ii)	Snapshots-published by N.C.E.R.T. 2008, prescribed for C in Class XI.	entral Schools

चतुर्थं पत्रम् - हिन्दी ∕ प्रान्तीय भाषा		100
(I) हिन्दी		
(अ) हिन्दी (केंद्रिक)		
अथवा		
(ब) हिन्दी (ऐच्छिक)		
(अ) हिन्दी (केंद्रिक)		100
(क) पाठ्य पुस्तक- आरोह (भाग-1)	40	
1) प्रेमचन्द		
पूरक पुस्तक- वितान (भाग-1)	20	
(ख) रचनात्मक लेखन (कामकाजी हिन्दी और रचनात्मक लेखन	T) 10	
(1) निबन्ध		
(2) कार्यालयीय पत्र		
अभिव्यक्ति और माध्यम पुस्तक के आधार पर प्रश्न–	10	
(i) समाचार लेखन/आलेख	5	
(ii) जीवन संदर्भों से जुड़ी घटनाओं और स्थितियों पर फीचर लेखन	5	
(ग) स्वच्छ भारत समाचार लेखन/आलेख	20	
आरोह पुस्तक के आधार पर प्रश्न	40	
काव्य भाग 20		
(i) दो काव्यांशों की व्याख्या 10		
(ii) काव्य के सौन्दर्य बोध पर एक प्रश्न 5		
(iii) कविता की विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न 5		
गद्यभाग	20	
(i) दो गद्याशों की व्याख्या 10		
(ii) गद्य पर वर्णनात्मक प्रश्न 5		
(iii) गद्य की विषय वस्तु पर आधारित लघु उत्तरात्मक प्रश्न 5		

वितान, भाग-1		20
पाठों की विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न	10	
विषयवस्तु पर आधारित निबन्धात्मक प्रश्न	10	
निर्धारित पुस्तकें-		
(i) आरोह, भाग-1, एन.सी.ई.आर.टी. द्वारा प्रकाशित		
(ii) वितान, भाग−1, एन.सी.ई.आर.टी. द्वारा प्रकाशित		
(iii) अभिव्यक्ति और माध्यम		
(ब) हिन्दी (ऐच्छिक)		100
(क) अपठित बोध (काव्यांश एवं गद्यांश बोध) 5+5		10
(i) काव्यांश–काव्यांश पर आधारित पाँच लघु उत्तरात्मक प्र	रश्न 5	
(ii) गद्यांश— गद्यांश पर आधारित प्रयोग, रचनान्तरण, शीर्षव आदि लघु उत्तरात्मक प्रश्न	फ 5	
(ख) रचनात्मक तथा व्यावहारिक लेखन		25
(i) निबन्ध	10	
(ii) कार्यालयीय पत्र	8	
(iii) व्यावहारिक लेखन– प्रतिवेदन/ कार्यसूची इत्यादि	7	
(ग) अन्तरा, भाग-1		25
काव्य भाग–		
(i) सप्रसंग व्याख्या	10	
(ii) कविताओं के काव्य पर दो प्रश्न	10	
(iii) काव्य सौन्दर्य पर प्रश्न	5	
गद्यभाग–		25
(i) सप्रसंग व्याख्या	8	
(ii) पाठों की विषयवस्तु पर आधारित प्रश्न	7	
(iii) किसी एक लेखक/कवि का साहित्यिक परिचय	10	

	(घ)	अन्तराल, भाग-1	15
	(i) विषयवस्तु पर आधारित प्रश्न	7
	(i	i) विविध विधाओं पर आधारित बोधात्मक प्रश्न	8
	निर्धा	रेत पुस्तकें–	
	(i) अन्तरा भाग-1, एन.सी.ई.आर.टी. द्वारा प्रकाशित	
	(i	i) अन्तराल भाग-1, एन.सी.ई.आर.टी. द्वारा प्रकाशित	
	(i	ii) अभिव्यक्ति और माध्यम, एन.सी.ई.आर.टी. द्वारा प्रकाशि	त
$(2)^{-1}$	प्रान्तीय	भाषा	
	गला		
(क)	Gram	mar	100
	(i)	Simple, Complex and compound sentences, Transfor	
	(ii)	Correction of words	
	(iii)	Karak	
	(iv)	Sadhu O' Chalit Bhasha	
	(v)	Proverbs and idioms	
(ख)	Unse	en passages	10
(ग)	Comp	position	20
	Effect	ive writing skill	
	(i)	Expansion of ideas	
	(ii)	Essay/paragraph	
(घ)	Text-	Book	
1.	उच्चम	ध्यमिकपाठसंचयन	30
	(गद्य,	पद्य एवं नाटक, 2005)	
2.	कर्णकु	न्तीसंवाद- रवीन्द्र नाथ टैगोर	15
उडिया	· / U	riya	100
क.	Appli	ed Grammer	20
		formation of sentences, antonyms, synonyms, idioms, pr ction of errots	overbs, punctuation,

ख.	Effective Writing Skill 20				20
	(i)	Report-Writ	ing for newspapers		
	(ii)	Eassay / arti	cle/speech		
ग.	Uns	een passages			10
ঘ.	۶. Text-Books			50	
	(i)	Novel	Chaman Athagunta-	Fakir Mohan Senapati, Cuttack	
	(ii)	Poetry	Chilika-	Radhanath Ray, Cuttuck	
	(iii)	(One act play)	Mantri Asibe	Ramchandra Misra Cuttuck	

नेपाली	/ Nep	ali	100
A.	Gramm	ner.	15
	Paryay	evachi, Viparitarthak, anekarthaka, Saar Shabda, Sabda-Shuddhi Vima	rsha
B.	Unseer	n passages	10
C.	Compo	osition-	
	(i)	Patra-rachna-Vyaktigata, Vyaparik, Datari, Smarak Patra	15
	(ii)	Nibandha rachna	
	Ref. Bo	ook : Madhyamik Nepali Vyakaran ra Rachana.	
D.	Text-be	poks	60
	(i)	Katha-Sangraha, Janapakchcha Prakashan, Gangtok, Sikkim	
	(ii)	Nibandha Sangrah, Janapakchcha Prakashan, Gangtok, Sikkim	
	(iii)	Muna Madan-Mahakavi Laxmi Prasad.	
	(iv)	Nepali Ekanki Sangraha, Kiksha Vibhag, Sikkim Sarkar	
डोगरी	/ Dogr	i	100
(i)	व्याकरण	Г	20
(ii)	अपठित	अंश	10
(iii)	रचना		20
(iv)	पाठ्यपुर	तकें	
	(i)	सांझ प्याली	
	(ii)	सरपंच	50

मलयाल	लम (Malayalam)	100
I.	Applied Grammer	20
	Parts of speech, idioms & proverbs,	
	Correction and transformation of sentences, Vocabulary-building, equ of simple terms in economic, administrative, scientific discourses an	
II.	Composition	20
(i)	Letter Writing.	
	Business Letters, infromal, application for civic amenities, letters application for a job.	to the editors,
(ii)	Paragraph Writing	
(iii)	Unseen Passage	
(iv)	Prose and Poetry	60
Text-b	books	
(i)	Malayalam, Govt. of Kerala, SCERT, 2005	
(ii)	Vyakti-vivekam by Akavoor Narayanan	
तमिल	/ Tamil	100
(1)	पोधु तमीजा (Podhu Tamizaha (Class XI 2004 Ed.)	
(2)	Sirukathai Selvam (2004) pt I (Nindetark XI)	
गुजरार्त	Ît ∕ Gujarati	100
A.	Unseen passage	10
B.	Composition	20
	(i) Report Writing for Newspapers	
	(ii) Precis-Writing	
	(iii) Essay	
C.	Grammar	20
	Transformation of sentences, formation of words (Samanarthi, Correction of Sentences, idioms, proverbs, Punctuation.	Virodharthi)
D.	Text-Books	50
	Gujarati (Dwitiya Bhasha) Std XI	
	Gujrat Rajya Sala Pathya Pustak Mandal, Gujrat	

A N / - --th:

मराठी 🛛	राठी / Marathi			
A.	Gramm	ner (
	(i)	Transformation of sentences-moods, voices, tenses		
	(ii)	Transformation of words		
	(iii)	Filling in the blanks with appropriate from of words.		
B.	Unseer	n passages		
C.	Compo	osition Essay		
D.	Literatu	Ire		
	Text-bo	poks		
	(i)	Yuvak Bharati for Class XI		
	(ii)	Kounteya - V.V. Shrivadekar		
मणिपुरी	t∕Ma	nipuri	100	
A.		d Grammer	15	
		nd its types, Affixes, Syllable		
B.	Compo		25	
	(i)	Essay, application,		
	(ii)	Precis writing		
C.	Unseer	n Passage	10	
D.	Prose-I			
Lessor	n (Poetr	y)		
	(1)	Ahing-gi-chekla Tamma	30	
	(2)	Ningkhaire		
	(3)	Smriti		
	(4)	Lei Langba		
	(5)	Jagoi Jogoi		
Selecte	ed Pieco	es. (Prose)		
	(1)	Kh. Chaoba-gi-Kavi	20	
	(2)	Kala Amasung Punshi		
	(3)	Yatri-ka-Thengnaruba		

- (4) Ning Shinglarga Iba
- (5) Kaling a lan loibada Ashoka

Prescribed Books

- (i) Manipuri Wareng-Cultural Forum, Manipur
- (ii) Manipuri Sheireng-Manipur Sahitya Parishad, Imphal
- (iii) Meetei Lonmit (Part II) by Dr. M.S. Ningomba
- (iv) Manipuri Grammer-Board of Sec. Education, Manipur

कन्नड़ (Kannada)

Text book : Sahitya Nandana

पंचमपत्रम्-अर्थशास्त्रम्/इतिहासः/राजनीतिशास्त्रम्/समाजशास्त्रम्/जीवविज्ञानम्/गणितम्/भूगोलः

अर्थश	ास्त्रम् /	Economics	100
A.	Statis	stics in Economics	50
1.	Econ	omics-meaning-scope and importance of Statistics in Economics	
2.	Colle	ection, organisation and presutation of Data-sources, methods,	
	censu	s of India, National Sample Survey Organisation, Variables, Frequence	су
	Distri	ibution, Presentation-Tabular, Diagramatic.	
3.	Statis	stical Tools and Interpretation.	
	(i)	Mean, median and mode.	
	(ii)	Measures of Dispersion	
	(iii)	Correlation	
	(iv)	Introduction to Index numbers meaning, types, uses, Inflation	
4.	Deve	loping Projects	
	(i)	Demographic structure	
	(ii)	Consumer awareness	
	(iii)	Changing prices	
	(iv)	Co-operative insitutions	
В.	India	an Economic Development	50
6.	Econ	omic Reforms since 91	
	libera	lization, globalisation and privatisation, LPG policies.	

7. Current Challenges-

Poverty, Rural development, Human Capital Formation, Employment, infrastructure, Policies, Economic Development, effects of Economic Development on Resources and Environment.

8. Development Experiences of India

- (i) Indian and Pakistan
- (ii) India and China
- (iii) Development indications

Ref. Books

1. अर्थशास्त्र में सांख्यिकी (हिंदी)

Statistics in Economics (N.C.E.R.T.)

2. भारतीय अर्थव्यवस्था का विकास (हिंदी)

Development of Economic policies in India (N.C.E.R.T.)

इतिहा	सः / H	listory	100
1.	Introc	luction to World History	15
	А.	Early Socities,	
	B.	Empires across three continents, Central Islamic lands,	
		Nomadic Empires	25
	C.	Changing Cultural Traditions, Confrontation	25
	D.	Paths to Modernization-Industrial Revolution, Displacement of	
		indegenous people, Paths to modernization	25
		Map-Work based on above units	10
বিষ্ব	इतिहास	के कुछ विषय (N.C.E.R.T.) (हिंदी)	
Then	nes in Wo	orld History (N.C.E.R.T.)	
राजर्न	ोतिशास्त्रग	₹ / Political Science	100

PartA Indian Constitution at works.

Making of Constitution, Fundamental Rights, System of representational democracy, Executive in a parliamentary system, legislature, Judiciary, Federalism. Local Government, Political Philosophy underlying constitution.

Part B Political Theory

Introduction, Freedom, Equality, Social Justice, Rights, Citizenship, Nationalism, Secularism, Peace Development.

भारत का संविधान–सिद्धान्त और व्यवस्था	(N.C.E.R.T.)
Indian Constitution at work	(N.C.E.R.T.)
राजनीति के सिद्धान्त (Political Theory)	
संदर्भ ग्रंथ–	
भारतीय संविधान का कार्यात्मक रूप एवं राज	नीतिक लेखन – श्री बी.बी. चौधरी

समाजशास्त्रम् / Sociology

A. Introducing Sociology

Society, Sociology and relationship with other sciences, Basic concepts, social Institutions, Culture and Society, Practical Sociology: Methods and Techniques

B. Understanding Society

Structure, Process, Stratification, Social Change, Environment and Society, Western Social Thinkers, Indian Sociologists-Karl Marx, Emile Durkheim, Max Weber, G.S. Ghurye, D.P. Mukherjee, A.R. Desai, M.N. Srinivas

समाजशास्त्र परिचय (N.C.E.R.T.)

Introducing Sociology (N.C.E.R.T.)

समाज का बोध (N.C.E.R.T.)

Understanding Society (N.C.E.R.T.)

जीवविज्ञानम् / Biology

- (i) Diversity in Living World
- (ii) Structural Organization in animals and plants
- (iii) Cell-Structure-and function
- (iv) Plant Physiology-

Water, food, nutrients, gases, Respiration, Photosynthesis, growth development.

(v) Human Physiology

Digestion, absorption, Breathing, respiration, Body Fluids and cirulations excretory products and elimination, Locomotion and movement, control and co-ordination.

Prescribed Books

100 50

50

जीवविज्ञान 1 (N.C.E.R.T.)

Biology Part I (N.C.E.R.T.)

गणितम् / Mathematics

I.	Sets and Functions	25
	Empty set, Finite and Infinite sets, Subsets, Power set, Universal set. Venn di union, intersection, difference, complement of a set	agrams,
(i)	Relations and Functions	
	Pictiorial diagrams, domain, ranges, Sum, difference, product and que functions	otient of
(ii)	Trigonometric Functions	
	Measuring angles, conversion from one measure to another, Define trigonometric functions with the helps of unit circle identities.	ition of
Π	Algebra	35
	Principal of Mathematical Induction, Complex Numbers and Quadratic Eq Linear Inequalities, Permutation and Combinations, Binomial Theorem, Se and Series	
III	Co-ordinate geometry	15
	Straight Lines, Conic Sections, Introduction to Three-dimensional Geom	etry
IV	Calculus	5
	Limits and derivatives	
V	Mathematical Reasoning	10
VI	Statistics and Probability	10
	गणित भाग (N.C.E.R.T.)	
	Mathematics Part I (N.C.E.R.T.)	
भूगोल	/ Geography	100
A.	Fundamentals of Physical Geography, Geography as a discipline, the earth, landforms, climate, water (oceans), life on earth.	40
B.	India-Physical Environment Physiography, Climate, Vegetation, Soil, Natural Hazards, Disasters.	40
C.	Maps, Topographical & Waeather-maps Latitude, Longitude, time, Map-projection, Uses of weather charts, weather instruments.	20

Prescribed Books

भौतिक भूगोल के मूल सिद्धान्त (N.C.E.R.T.) Fundamentals of Physical Geography (N.C.E.R.T.) भारत का भौतिक पर्यावरण (हिन्दी) (N.C.E.R.T.) Indian Physical Environment (N.C.E.R.T.) भूगोल में प्रयोगात्मक कार्य (N.C.E.R.T.) Practical Work in Geography (N.C.E.R.T.)

षष्ठं	पत्रम्-	वेदः/व्याकरणम्/साहित्यम्/ज्यौतिषम्/दर्शनम्/जैनदर्शनम्/बौब	द्वदर्शनम्	100
वेदः				100
	(अ)	शुक्लयजुर्वेदे रुद्राष्टाऽध्यायी (प्रथमाध्यायत: चतुर्थाध्यायपर्यन्तम्)	70	
		सस्वरमन्त्रकण्ठस्थीकरणम्		
	(ब)	छन्दसां सामान्यपरिचय: (गायत्री, उष्णिक्, अनुष्टुप्, बृहती, पङ्क्ति, जगती छन्दांसि)	30	
व्याक	रणम्			100
	वैयाक	रणसिद्धान्तकौमुदी- आदित: पञ्चसन्ध्यन्तो भाग:		
	अङ्कर्षि	वभाजनम्-		
	(1)	संज्ञापरिभाषाप्रकरणे	30	
	(2)	अच्सन्धिः	30	
	(3)	हल्सन्धिः, विसर्गसन्धिः, स्वादिसन्धिश्च	40	
साहि	त्यम्			100
	वृत्तरत	नाकर: प्रथमाध्याय: 25 छन्दांसि		
	(1)	मात्रावृत्तम्		
	(2)	वर्णवृत्ते समवृत्तम्		
		(अ) अनुष्टुब् - विद्युन्माला, प्रमाणिका		
		(आ) त्रिष्टुब् - इन्द्रवज्रा, उपेन्द्रवज्रा, उपजाति:, दोधकम्, रथोद्धता, स्वागत, शालिनी		
		(इ) जगती - वंशस्थम्, तोटकम्, द्रुतविलम्बितम्, भुजङ्गप्रयात	म्	
		(ई) अतिजगती - प्रहर्षिणी, मञ्जुभाषिणी		
		(उ) शक्वरी - वसन्ततिलका		
		(ऊ) अतिशक्वरी - मालिनी		
		(ऋ) अत्यष्टि - शिखरिणी, पृथ्वी, मन्दाक्रान्ता		
		(ॠ) अतिधृति - शार्दूलविक्रीडितम्		

	(लृ) प्रकृति - सृग्धरा	
	वर्णवृत्ते अर्धसमवृत्तम्, ललिता पुष्पिताग्रा च	
ज्यौति	षम्	100
	(1) रेखागणितम्, 1-2 अध्यायौ	50
	(2) जन्मपत्रदीपक:	40
	(3) पञ्चाङ्गपरिचयः	10
दर्शनम्	1	100
	े तर्कसङ्ग्रहः (पदकृत्यहित:)	
-	<u> </u>	100
जैनदश	`	100
	तत्वार्थसूत्रम्, उमास्वामिविरचितम्	
बौद्धद	र्शनम्	100
	धर्मसङ्ग्रह:, आचार्यनागार्जुनविरचित:	
सप्तमं	पत्रम् - संगणकविज्ञानम् (Computer Science)	100
Unit l		
1.	Computer Appreciation : What is Computer?	3 sessions
	Characteristics of Computers, Input, Output, storage units, CPU Advantages and Disadvantages of using computers.	, computer system.
2.	Computer Organization	20 sessions
2.1	Central Processing Unit	
	Control Unit, Arithmetic Unit, Instruction Set, Register, Proce Processor Speed.	ssor and
2.2	Memory	
	Main memory : Storage Evaluation Criteria, Memory Organization Read only Memories, Secondary Storage Devices, Magnetic Hard Disks, Optical Disks, CD-ROM, Mass Storage Devices	Disks, Floppy and

2.3 Input Devices

Keyboard, Mouse, trackball, joystick, Scanner OMR, Bar-code reader, MICR Digitizer, Card Reader, Voice Recognition, web cam, video cameras and other input devices.

2.4 Output Devices

Monitors, Printers-Dot matrix, inkject, laser, Plotters, Computer, Output Micro-Film (COM) Multimedia Projector, speech synthesizer; dumb smart and intelligent terminal.

2.5 Multimedia:

What is Multimedia, Text, Graphics, Animation, Audio, Images, Video : Multimedia Application in Education, Entertainment, Marketing.

2.6 Computer Software

Relationship between Hardware and Software; System Software, Application Software, compiler, names of some high level languages.

3. Operating Systems

3.1 Disk Operating Systems

Simple DOS Commands, Simple File Operations, Directory Related Commands.

3.2 Microsoft Window

An overview of Window, Basic Windows elements, File management through Windows. Using essential accessories : Systems tools, Disk cleanup, Disk defragmenter, Entertainment, Games, Calculator, Imaging-Fax, Notepad, Paint, Word pad.

3.3 LINUX

Concept of multi user operating systems. Basics of Linux OS. An overview of Linux.

Revisi	on	2 Sessions
Unit I	Test	1 Session
Unit II		
4.	Data Representation	10 Sessions
	Binary, Octal, Decimal, Hexa Decimal	
	Binary Arithmetic (Simple methods for add, subtract (2's Complete	ment).

10 sessions

Binary number system, Binary to Decimal Conversion, Decimal to Binary Conversion, Binary Coded Decimal (BCD Code, ASCII Code.

5. Concept of Files

Types of Files, file organization; sequential, relative and indexed, Modes of processing; batch, online and real-time.

6. **Operation of files:**

Input, output and I/O; processing a file, multiple handling file updations, sequential file updation, random file update.

7. Principles and techniques of programming

7.1 Introduction to programming:

Program definition, life cycle, characteristics of a good program, Program Design (flowcharts, pseudo codes, Dry Run, Techniques to prepare test data)

7.2 Algorithms for Problem Solving

Exchanging values of two variables, Summation of a set of numbers, Subtraction of two numbers, Product of two numbers, Sum of 10 numbers, Greatest of three numbers, Product of first ten odd numbers, Sum of first 20 even numbers, Find square root of a number, factorial computation, Reverse order of elements of any array, Find largest number in an array.

7.3 Programming paradigms:

Unstructured programming, structured programming, procedural programming, modular programming, program design, top down up design, program documentation.

Revision	2 sessions
Unit II Test	1 session
Revision	Remaining sessions

5 sessions, Modes of

3 sessions

20 sessions

द्वितीयवर्षम्

प्रथमं पत्रम् - व्याकरणम् 100				
अ-भागः ल	घुसिद्धान्तकौमुद्यां कारकसमास प्रकरणे	30	अङ्काः	
	तप्रकरणे-कृत्यप्रत्यया:, ण्वुल्, तृच्, अण्, क, क्त- क्तवतु, शतृ-शानच्, , क्त्वा, लघुसिद्धान्तकौमुदीरीत्या	, 20	अङ्काः	
ब-भागः रच	ानानुवाद:	50	अङ्काः	
1)	शब्दरूपाणां परिचय:	15	अङ्काः	
	पुंलिङ्गका: शब्दा: – राजन्, विद्वस्, गोमत्, गुणिन्, भगवत्, मघवन्			
	स्त्रीलिङ्गका: शब्दा: - वाच्, दिश्, गिर्, उपानह्, अप्, श्री, स्त्री			
	नपुंसकलिङ्गका: शब्दा: - दधि, मधु, अस्थि, आदि, ददत्			
	सर्वनामशब्दाः - सर्वेपि सर्वनामशब्दाः			
2)	धातुरूपाणां परिचय: (दशसु लकारेषु)	20	अङ्काः	
	अदादि – अद्, इङ्–अध्ययने			
	जुहोत्यादि – हु, भी			
	दिवादि – दिव्, नृत्			
	स्वादि – सु, चि			
	तुदादि – तुद्			
	रुधादि - रुध, भिद्			
	तनादि – तनु			
	क्रयादि – क्री, ग्रह			
	चुरादि - चुर्, गण्			
3)	निबन्धलेखनम्	10	अङ्काः	
	यात्रावर्णनम्, संस्थावर्णनम्, विद्यामहिमा, परोपकार:			
4)	अनुवाद: आङ्ग्लत: संस्कृतम्, संस्कृतत: हिन्दी/आङ्ग्लम्	05	अङ्काः	
	(अधीतशब्दरूपधातुरूपत: अनुवादवाक्यानि)			

द्वितीयं	पत्रम्-	साहित्यम्	100
	(1)	किरातार्जुनीयम् - प्रथम-सर्गः	40
	(2)	नीतिशतकम् (भर्तृहरिविरचितम्)	60
तॄतीयं	पत्रम्-अ	ंग्लम् (English)	100
Sectio	on A : Co	omprehension	10 marks
	A	Passage from the text, followed by 5 questions each ca	arrying 2 marks (5 \times 2)
Sectio	on B : A	dvanced writing skills	10 marks
	tł	Passage from the text followed by 5 questions eac aree question (composition or writing report. 2 man etween 150 to 200 wards	e
Sectio	on C : G	rammar	40 Marks
	-	ing the voice and Narration, combining sentences. Are estions out of 25 each questions carring 2 marks (20>	-
Sectio	on D : T	ext Books	30 Marks
(a)	Flami	ngo	20 Marks
	i)	Five out of eight short answer questions (Each carring 4 marks)	(5×4+20 Marks)
(b)	Suppl	ementary Reader : Vistas	10 Marks
		at of three long answer questions. (essasy type with 150 words)	
Sectio	on E : Es	ssay type question on importance of Yoga	10 Marks
		at of three long answer questions. (essasy type with 150 words)	
Presc	ribed B	ooks:	
	i)	Flamingo, NCERT, 2008 prescribed for Central Sc	hool in Class XII

ii) Vistas, NCERT, 2008 prescribed for Central School in Class XII.

चतुर्थं	चतुर्थं पत्रम् – हिन्दी / प्रान्तीय भाषा 1		
(I)	हिन्दी-	_	
	(अ)	हिन्दी (केंद्रिक)	
		अथवा	
	(ब)	हिन्दी (ऐच्छिक)	
(अ)	हिन्दी	(केंद्रिक)	
(क)	रचनात	मक लेखन एवं जनसंचार माध्यम	४० अङ्काः
रचनात	मक लेख	वन–	
	(1)	निबन्ध	10
	(2)	कार्यालयीय पत्र	
जनसंच	गर माध्य	थम–	
	निम्नलि	ाखित विधाओं पर दो प्रश्न–	
	(I)	रिपोर्ट/आलेख	05
	(II)	फीचर लेखन (जीवन संदर्भो से जुड़ी घटनाओं और स्थितियों पर फीचर लेखन)	05
	(III)	योग विषय पर रिपोर्ट आलेख	20
(ख)	आरोह	, भाग–2	20 अङ्काः
काव्य	भाग		
	(I)	दो काव्याशों की व्याख्या	10
	(II)	काव्य के सौन्दर्यबोध पर एक प्रश्न	05
	(III)	कविता की विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न	05
गद्य भ	ाग		20 अङ्काः
	(I)	दो गद्यांशों की व्याख्या	10
	(II)	गद्य पर वर्णनात्मक प्रश्न	05
	(III)	गद्य की विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न	05

(ग)	वितान, भाग–2			भङ्काः		
	(I)	पाठों को विषयवस्तु पर आधारित लघु उत्तरात्मक प्रश्न				
	(II)	विषय वस्तु पर आधारित निबन्धात्मक प्रश्न	10			
निर्धारि	त पुस्तव	कें:				
	(I)	आरोह, भाग–2 एन.सी.ई.आर.टी. द्वारा प्रकाशित				
	(II)	वितान, भाग–2 एन.सी.ई.आर.टी. द्वारा प्रकाशित				
	(III)	अभिव्यक्ति और माध्यम, एन.सी.ई.आर.टी. द्वारा प्रकाशित				
(ब)	हिन्दी	(ऐच्छिक)		100		
(क)	अपठि	त बोध (काव्यांश एवं गद्यांश बोध) 10+10		20		
	(I)	काव्यांश–काव्यांश पर आधारित रचनात्मक, शीर्षक प्रयोग	10			
		आदि पर लघु उत्तरात्मक प्रश्न				
	(II)	गद्यांश—गद्यांश पर आधारित लघु उत्तरात्मक प्रश्न	10			
(ख)	रचनात	मक तथा व्यावहारिक लेखन		20		
	(I)	निबन्ध	10			
	(II)	कार्यालयीय पत्र	05			
	(III)	अभिव्यक्ति और माध्यम के आधार पर व्यावहारिक लेखन पर प्रश्न	05			
(ग)	अन्तरा	भाग-2		25		
काव्य	भाग–					
	(I)	सप्रसंग व्याख्या	10			
	(II)	कविताओं के कथ्य पर दो प्रश्न	10			
	(III)	काव्य सौन्दर्य पर प्रश्न	05			
गद्य भ	ाग–			20		
	(I)	सप्रसंग व्याख्या	05			
	(II)	पाठों की विषय वस्तु पर आधारित प्रश्न	05			
	(III)	किसी एक लेखन/कवि का साहित्यिक परिचय	10			

(घ)	अन्तराल भाग-2				15	
	(I)	विषय वस्तु पर आधारित प्रश्न		07		
	(II)	विविध विषय पर आधारित बोधात्मक प्रश्न		08		
निर्धारित	त पुस्तवें	<u>-</u>				
	(1)	अन्तरा भाग–2, एन.सी.ई.आर.टी. द्वारा प्रकाशित				
	(2)	अन्तराल भाग–2, एन.सी.ई.आर.टी. द्वारा प्रकाशित				
	(3)	अभिव्यक्ति और माध्यम, एन.सी.ई.आर.टी. द्वारा प्रकाशित				
(2) y	ान्तीय भ	गाषा				
बंगला	/ (Ben	gali)			100	
Section	nA:					
Gramm	nar			30		
1.	Phonology (Definition with five examples) 10					
	Samibł	naban, Spinihiti, Sarasangati, Swarabhkti, Abhisruti				
2.	Rhetoric (Definition and Identification)10					
	Anupra	ash, Slesh, Yamka, Upama, Shamashakti				
3.	Proverbs and Idioms 10					
Section	n B : Su	mmary Writing		10		
Section	n C : Co	omposition		10		
	Person	al Letters (Friends and Parents)				
Section	n D : Li	terature		50		
		ccha Madhyamik Path Sanchayan (Prose) Edition-	2005			
		studied :				
1.	Prose			20		
	1.	Biral				
	2.	Tota Kahini-by Rabindra Nath Tagore				
	3.	Shubh Utsav		15		
	Uccha Madhyamik Path Sanchayan (Poetry & Drama)					
	Edition-2005					

2.	Poems to be studied:			
	(i)	Attya Bilap		
	(ii)	Ora Kaj Kare		
	(iii)	Atharo Bacchar Bayesh		
3.	Nove	el : Srikanta (Part I)- by Sarat Chandra Chatterjee	15	
उड़िया	/ (01	riya)		100
		Section A		
Readi	ng Ski	lls	10	
	Unse	en Passage for Reading/Comprehension followed by 4 to 5 qu	estions.	
	1 mai	k may be allocated for suitable heading.		
Section	n B : V	Writing Skills	25	
	1.	Essay on Current topics (Social and Cultural issues)		
		(250 to 300 words)	10	
	2.	Letter to the Editor of Newspaper	08	
	3.	Factual description of place or object	07	
Section	n C : A	applied Grammar, Prosody and Rhetories	15	
(i)	Appli	ed Grammar		
	1.	Transformation of sentences (Simple, Complex, Compound)	03	
	2.	Idioms and Proverbs-	03	
	3.	Correction of errors in words	03	
(ii)	Prose	ody and Rhetorics		
	1.	Prosody (Sama, Bisama, Matra bruta)	03	
	2.	Rhetorics (Anuprasa, Rupak)	03	
Section	n D : I	Literature		
Prose :	Presc	ribed Text : Gadya Dhara, Orissa State Bureau of Text Book		
	prepa	ration and Production, Bhubneswar, 2006	20	
Lesso	1			
	1.	Swadhina Chinta Biswanath Kar		

	2.	Odia Jati Kie	Gopabandhu Das		
	3.	Kshyana	Mayadhar Mansingl	Mayadhar Mansingh	
	4.	Manisa (2) Bhubaneswar Beher			
	5.	Jatira Jibana O Samskruti	Golak Bihari Dhal		
	6.	Madhu Sandhan	Chandra Sekhar Ra	th	
Quest	ions				
C	1.	f two)	08		
	2.	Short answer type questions (two out	of four)	05	
	3.		07		
Poetry		cribed text : Padya Dhara, Orissa State B			
	Prep	aration and Production, Bhubaneswar, 20	006	20	
	Enu	Kapota Guru Moro-	Jagannath Das		
	Jagate Kebala-		Baladev Rath		
	Mo.	libana Pachhe Narke Padithau-	Bhima Bhoj		
	Mul	Hata Bahuda-	Fakir Mohan Senapati		
	Bars	ha-	Radhanath Roy		
	Urka	ıla Kamala	Godabarisha Mohapatra		
	Chh	ota Mora Ganti	Cachindananda Routroy		
	Grar	na Patha-	Binod, Chandra Nayak		
	Sara	ta Ratura, Janma	Guru Prasad Mohanty		

Questions :

- 1. Long answer type questions (one out of two)
- 2. Short answer type-questions (two out of four)
- 3. Explanation (one out of two)

Drama :

10

Buxi Jagabandhu by Mahorahjon Das, Dasarathi Pustakalaya, Cattuck-2

Questions :

1. Short answer type questions to test knowledge on the theme, plot, character, settings and technique (two out of four)

नेपाली	/ (Nepali) 100					
А.	Gra	Grammar (Suggested chapters)				
	(i) Chahanda : Anustup, Totak, Indrabajraa, Shikharini, Basantatilaka, Sardulvikridit.					
	(ii)	Alankaar : Anupras, Upama, Rupak Slesh,	Vakrokti, Utpreksha.			
B.	Rea	ding Unseen :	10			
C.	Composition & Writing: 15					
	(a)	Patra Rachana : Vyaktigat, Vyaparik, Dafta	ri and Smarak Patra.			
	(b)	Nibandha Rachana : Aatmaparak, Vicharat	mak.			
D.	Lite	rature : (Prose) :	30			
	Stor	ies:				
	(i)	Machhako mol	Shiva Kumar Rai			
	(ii)	Pipako Hawaldar	Matrika Prasad Koirala			
	(iii) Rupko Mulya Bal Krishna Sam					
	(iv) Chaprasi Achha Rai Rasik					
	Essa	Ŋ				
	(i)	Dan	Laxmi Prasad Deokota			
	(ii)	Namastey	Tara Nath Sharma			
	(iii)	Sapana	Ram Krishna Sharma			
	Lang	guage-Literature: Nepali Bhasako Utpati				
	Poet	ry : Ritu Vichar - Lekhnath Poudyal	10			
	Dra	ma : (Suggested Chapters) :	10			
	(i)	Natak-Saadharan parichaya				
	(ii)	Nepali Natak-Ko Vikash Katha				
Refere	nce B	ook : Madhyamik Nepali Vyakaran ra Rachana	1			
Referen	nce Bo	ook : Katha Sangraha, Published by Janapakchha	Prakashan, Gangtok Sikkim.			
Refere	nce B	ook : (to be prepared by the Department of Ed	ucation, Govt. of Sikkim)			
Refere	Reference Book : Nepali Sahitya Parichaya-Purna Rai					
Refere	Reference Book : Ritu Vichar					
Refere	nce B	ook : Nepali Ekanki Sangraha-Siksha Vibhag,	Sikkim Sarkar.			
UPANYASH : Daak Bangla : by Shivakumar Rai						

डोगरी (Dogri)				
	(क) शानो (उपन्यास) 50			
	(ख)	कविता, निबन्ध संग्रह	50	
मलयाल	मलयालम / (Malayalam)			
1.	Grammar 25			
	Eleme			
	1.			
	2.	Utpreksha		
	3.	Atishayokthi		
	4.	Rupakam		
2.	Writir	ng Skills	25	
	A general study of newspapers/magazines and periodicals in the language with the object of writing			
	(i)	Reports of simple events	05	
	(ii)	Letter of Editor	10	
	(iii)	Comprehension of an unseen passage followed by short answer question	10	
3.	Prose.	Poetry	50	
	 Text book : 'SAHITYA DARPANAM' - Collection of Essays, Stories and Poems Prescribed by SCERT., Govt. of Kerala Pub. by All Saints International CMS College Road, Kottayam, Kerala (2005 Edition) 			
	2. Moulana Abdul Kalam Azad (Biography) by Dr. M.Leelavathy Pub. by Lipi Publications, Kozhikode Prescribed by SCERT, Govt. of Kerala (2003 Edition).			
	3.	Vidhura Bhiksha by Ulloor (Poem) Prescribed by SCERT Govt (Complete text) Pub. by Ulloor Publications, Thiravananthpura		
तमिल (Tamil) 1				
A.	Gramn	nar	15	
B.	Letter Essay Writing 10+15			
C.	Unseen reading & Comprehension 10			

D.	(i)	Prose			20		
	(ii)	Poetry	,		15		
	(iii)	Non-d	letailed text-book		15		
Text-bo	ooks						
1.	Podhu'	Thamiz	Fhamizh Text Book Class XII				
2.	Kathai	Kovai-	Kovai-non-detailed text Class XII				
	(Tamilr	nadu Te	xt Book Society)				
गुजराती	∕ (Gı	ıjrati))		100		
Section	ction A : Advanced Reading Skills						
1.	Anuns	een pas	ssage of 150 words followed by 5 ques	stions			
Section	n B : E f	fective	Writing Skills		26		
	(i)	Aness	say of 200-250 words on current topic	cs.	10		
	(ii)	Story b	building from given points		08		
	(iii) Letter-Writing (Personal, Professional, Occupational)						
Section	Section C : Applied Grammar						
	1.	Identif	fying Alankar: (From prescribed poem	s only)	03		
	2.	Identif	Fying Idioms (From prescribed poems of	only)	03		
	3.	Transf	formation of Sentences in respect of ter	ises	04		
	4.	Identif	Fying Cases from given sentences		04		
Section	n D : LI	TERA	TURE :		50		
(a)	Prose :				20		
	1.		eference to the context questions base ibed lessons (In four or five lines)	d on all			
	2.	Twoe	ssay type questions out of four questio	ns			
Lessor	ns to be	Studie	es :				
S.No.	Lesson	No.	Title	Author			
1.	2		Mata Pita ni Agna	Gandhiji			
2.	6		Kanchan Ane Geru	Ramanlal V Desai	Ĺ		
3.	8		Napass	Chandravandan C	^C Meha		
4.	14		Maji No Pyalo	Gulabdas Broker			

5.	16	Diwaliman Noker Gayo	Chinubhai Patwa
6.	18	Navun Darshan	Chhottubhai Suthar
7.	22	Din Khoon ke Hamare	Dhirubhai Thakkar
8.	24	Shruti Ane Smruti	Chandrakant Baxi
9.	26	Indereshwarthi Ashram	Narottam Pallan
10.	28	Putra Shishyat Icchet Parajayam	Girish Ganatra
B.	Poetry:		20
1.		arshan - Bhavarth from the from the prescribed poems only	
2.	Two long q	uestions out of four questions	

- based on the prescribed poems only
- 3. Critical appreciation of any one poem out of three poems

Poems to be studied :

S.No.	Lesson No.	Title	Author
1.	1	Mehulo Gaje Ne Madhav Nache	Narsinh Mehta
2.	5	Janani	Botadhar
3.	7	Phool vin Sakhe!	Kalapi
4.	11	Mane Aej Samajatu Nathi	Karsandas Manek
5.	13	Biju Hun Kai na Magun	Badrayan
6.	15	Koun?	Sundaram
7.	17	Te Shun Kstuim?	Umashanker Joshi
8.	21	Banavati Phoolone	Prehlad Parekh
9.	23	Adhalak Dhaliyo Re Samaliyo	Dinesh Kothari
10.	25	Tham	Nalin Raval
11.	27	Tadko	Sudhir Desai
12.	30	Haiku	Loksahitya, Hemenshah
			& Sneh Rashmi

Prescribed Textbook - Gujrati (Dwitiya A Bhasha) Std. XII Gujarat Rajya Shala Pathya Pustak Mandal 'Vidhyayan' Sector 10 A Gandhinagar (Ed. 2004) Gujrat

C. History of Modern Literature (Broad Outlines) 10 'Gujarati Sahitya ni Vikas rekha by Dhirubhai Thaker

- 1. Dalapatram
- 2. Narmad
- 3. Goevrdharam Tripathi
- 4. K.M. Munshi
- 5. Gandhi
- 6. Umashanker Joshi
- 7. Sundaram
- 8. Dhumketu
- 9. Kalapi
- 10. Pannalal Patel

मराठी (Marathi)

Section A			
Gr	rammar		25
(i)	Transformation of Sentences in respect of moods, voic	e	
	and tenses	15	
(ii)	Transformation of Words	05	
(iii)) Filling in the blanks with appropriate forms of words	05	
	(Difficulty level should be higher than that of Class XI)		
Section B			
Ur	seen reading comprehension		10
Section C			15

Section C15Composition and Writing
Essay on topical subject relating to Economic, Social and Cultural Life.
in Contemporary society and day-to-day experiences50Section D50Text-books Prescribed by CBSE100

1. Applied Grammar Number, Case, Sentence Types-Simple, Complex, compound

Suggested reference books for Grammar Meete! Lonmit (Part-II) Dr. M.S. Ningomba Published by Saraswati Book House, Singiamei Imphal Manipuri Grammar Published by the Board of Secondary Education, Manipur

2. Prose and Poetry

A. Prose

- (i) Explanation of the passages from the text
- (ii) Short Notes
- (iii) Questions on the text

Lessons to be studied : (05)

(i)	Madhab gi Qukchel Hongba	Dr. L. Kamal Singh
(ii)	Sahitya	Dwijamani Dev Sharma
(iii)	Inthokpa	R.K. Shitaljit Singh
(iv)	Wakehing-gi-Nong	R.K. Shitaljit Singh

(v) Sarkargi Chakari

Prescribed book : Manipuri Wareng, Published by the Cultural Forum, Manipur

B. Poetry

- (i) Explanations of passages (from the text) 20
- (ii) Questions on the text

Poems to be studies : (05)

- (i) Meitei Kokil
 (ii) Cring-gi-Leirang Amada
 (iii) Mrigchat thiba
 (iv) Manipur
 Dr. L Kamal Singh
 Kh. Chaoba Singh
 H. Anganghal Singh
 E. Nilakanta Singh
 - (v) Sabhata gi Phum
- R.K. Surendrajit Singh

H. Guno Singh

Prescribed book : *Manipuri Sheireng*, Published by the Manipuri Sahitya Parishad Imphal

C. Supplementary Reading : Manipuri Lila Mancha (Selected Pieces) Published by

Cultural Form, Manipur	
Tirha Tatra-Arambam Samarendra Singh	
कन्नड (Kannada)	100
Text book : Sahitya Chandana	
पंचमपत्रम्–अर्थशास्त्रम्⁄इतिहासः⁄राजनीतिविज्ञानम्⁄समाजशास्त्रम्⁄जीवविज्ञान	ाम्∕गणितम्∕भूगोलः
अर्थशास्त्रम् / (Economics)	100
Part A : Introductory Microeconomics	50
Unit 1 : Introduction	
What is microeconomics?	04
Central problems of an economy, production possibility curv cost	e and opportunity

Unit 2 : Consumer Behaviour and Demand

Consumer's Equilibrium-meaning and attainment of equilibrium through Utility Approach : One and two commodity cases Demand, market demand, determinants of demand, demand schedule, demand curve, movement along and shifts in demand curve, price, elasticity of demand, measurement of price elasticity of demandprecentage, total expenditure and geometric method.

Unit 3 : Producer Behaviour and Supply

15

13

Production function : Returns of a factor and Returns to scale

Supply, market supply, determinants of supply, supply schedule, supply curve movement along and shifts in supply curve, price elasticity of supply, measurement of price elasticity of supply-percentage and geometric method.

Cost and Revenue : Short run costs-Total cost, Total variable cost, Total Fixed cost; Average Fixed cost, Average Variable cost and Marginal cost meaning and their relationship. Revenue-total, average and marginal revenue-Producer's equilibrium-Meaning and its conditions in terms of total cost and total revenue.

Unit 4 : Forms of Market and Price Determination

Forms of market-Perfect competition, Monopoly, Monopolistic competition-their meaning and features.

Price determination under perfect competition-Equilibrium price, effects of shifts in demand and supply.

Unit 5 : Simple applications of Tools of demand and supply0)8
B : Introductory Macroeconomics	50
Unit 6 : National Income and related aggregates1	15
Macroeconomics : Meaning	
Circular flow of income, concepts of GDP, GNP, NDP, NNP (at marke and factor cost), National Disposable Income (gross and net): Private In Personal Income and Personal Disposable Income, Measurement of N Income-Value Added Method, Income methods and Expenditure method	ncome, Vational
Unit 7 : Determination of Income and Employment1	12
Aggregate demand, Aggregate supply and their components.	
Propensity to consume and propensity to save (average and marginal).	
Meaning of involuntary unemployment and full employment.	
Determination of income and employment: Two sector model.	
Concept of investment multiplier and its working.	
Problems of excess and deficient demand:	
Measures to correct excess and deficient demand-availability of credit, ch Government spending.	lange in
Unit 8 : Money and Banking 0)8
Money-meaning, evolution and functions	
Central bank-meaning and functions	
Commercial banks-meaning and functions	
Unit 9 : Government Budget and the Economy 0)8
Government budget-meaning and its components	
Objectives of government budget	
Classification of receipts-revenue and capital : classification of expenditure- and capital, plan and non-plan, and developmental and non-develop Balanced budget surplus budget and deficit budget : meaning and implic Revenue deficit, fiscal deficit and primary deficit : meaning and implications; m to contain different deficits.	mental, cations.

Unit 10 : Balance of Payments

Foreign exchange rate-meaning (Fixed and Flexible) merits and demerits; Determination through demand and supply

	Balance of payments account	
	meaning and components	
Books	Prescribed	
अर्थशार	त्र / Economics (N.C.E.R.T.)	
इतिहास	: (History)	100
	Units	
	Section A : Archaelogy & Ancient India	25
	Units 1-4	
	Section B : Medieval India	30
	Unit 5-9	
	Section C : Modern India	35
	Unit 10-15	
	Unit 16 : Map Work	10
	Themes in Indian History	
Section	n A : Archaeology & Ancient India	25
1.	The Story of the First Cities : Harappan Archaeology,	
	Story of discovery : Early urban centres.	
	Story of discovery : Harappan civilization	
	Excerpt : Archaeological report on a major site	
	Discussion : how it has been utilized by archaeologists/historians.	
2.	Political and Economic History : How Inscriptions tell a story.	
	Board overview : Political and economic history from the Mauryan to period.	the Gupta
	Story of discrovery : Inscriptions and the decipherment of the script, Sh under standing of political and economic history.	nifts in the
	Excerpt: Asokan incription and Gupta period and grant.	
	Discussion : Internation of inscriptions by historians.	
3.	Social Histories : Using the Mahabharata Broad overview : Issues history, including caste, class kinship and gender.	s in social
	Story of discovery : Transmission and publications of the Mahabhara	.t.

Excerpt : from the Mahabharata, illustrating how it has been used by historians. **Discussion :** Other sources for reconstructing social history.

4. A History of Buddhism : Sanchi Stupa Broad overview : (a) brief review of religious histories of Vedic religion, Jainism, Vaisnavism, Saivism (b) Focus on Buddhist.

Story of discovery : Sanchi stupa

Excerpt : Reproduction of sculptures from Sanchi.

Discussion : Ways in which sculpture has been interpreted by historians, other sources for reconstructing the history of Buddhism.

Section B : Medieval India

30

5. Agrarian Relations : The *Ain-i-Akbari*

Broad overview : (a) Structure of agrarian relations in the 16th and 17th centuries (b) Patterns of change over the period.

Story of Discovery : Account of the compilation and translation of *Ain-i-Akbhari*. Excerpt : from the *Ain-i-Akbari*

Discussion : Ways in which historians have used the text to reconstruct history.

6. **The Mughal Court : Reconstructing Histories through Chronicles**

Board Overview : (a) Outline of political history 15th-17th centuries. (b) Discussion of the Mughal court and politics.

Story of Discovery : Account of the production of court chronicles, and their sub-sequent translation and transmission

Excerpt : from the *Akbaranama and Pads hahnama*.

Discussion : Ways in which historians have used the texts to reconstruct political histories.

7. New Architecture Hampl : Board Overview : (a) Outline of new building during Vijaynagar period-temples, forts irrigation facilities (b) Relationship between architecture and the political system.

Story of Discovery : Account of how Hampi was found.

Excerpt: Visuals of buildings at Hampi

Discussion : Ways in which historians have analyzed and interpreted these structures.

8. Religious Histories : The Bhakti-Sufi tradition;

Broad Overview : (a) Outline of religious developments during the period. (b) Ideas and practices of the Bhakti-Sufi saints.

Story of Transmission : How Bhakti-Sufi compositions have been preserved.

Excerpt : Extracts from selected Bhakti Sufi works.

Discussion : Ways in which these have been interpreted by historians.

9. Medieval Society Through Travellers' Accounts

Broad Overview : Outline of social and Cultural life as they appear in travellers' accounts.

Story of their writings : A discussion of where they travelled, why they travelled, what they wrote, and for whom they wrote.

Discussion : What these travel accounts can tell us and how they have been interpreted by historians.

Section C Modern India

35

10. Colonialism and Rural Society : Evidence from Official Reports'

Broad overview : (a) Life of zamindars, peasants and artisans in the late 18 century (b) East India Company, revenue settlements and surveys, (c) Changes over nineteenth century.

Story of official record : An account of why official investigations into rural societies were under taken and the types of records and reports produced.

Excerpts : From Firminger's Fifth Report, Accounts of France Buchanan-Hamiltion and Deccan Riots Reports,

Discussion : What the official records tell and do not tell and how they have been used by historians.

11. Representation of 1857

Broad Overview : (a) The events of 1857-58

(b) How these events were recorded and narrated.

Focus : Lucknow.

Excerpts: How the pictures of 1857 shaped British opinon of what had happened.

12. Colonialism and Indian Towns : Town Plans and Municipal Reports

Broad Overview : The growth of Mumbai, Chennai, hill stations and cantonments in the 18th and 19th century.

Excerpts : Photographs and paintings. Plans of cities. Extract from town plan reports. Focus on Kolkata town planning.

Discussion : How the above sources can be used to reconstruct the history of towns. What these sources do not reveal.

13. Mahatma Gandhi through Contemporary Eyes

Broad Overview : (a) The nationalist movement 1918-43.

(b) The nature of Gandhian politics and leadership

Focus : Mahatma Gandhi in 1931.

Excerpts : Reports from English and Indian language newspapers and other contemporary writings.

Discussion : How newspapers can be a source of history.

14. Partition though Oral Sources

Broad Overview : (a) The history of the 1940s; (b) Nationalism. Communalism and Partition.

Focus : Punjab and Bengal.

Excerpts : Oral testimonies of those who experienced partition.

Discussion : Ways in which these have been analyzed to reconstruct the history of the event.

15. The making of the Constitution

Broad Overview : (a) Independence and the new nation state (b) The making of the constitution.

Focus : The Constitutional Assembly debates.

Excerpts : from the debates

Discussion : What such debates reveal and how they can be analyzed.

16. Map work on Unit 1-15

Prescribed books

भारतीय इतिहास के कुछ अंश (NCERT) (कक्षा XII)

Themes in Indian History (NCERT) (for Class XII)

Part A : Contemporary world Politics

1. Cold War Era in World Politics

Emergence of two power blocs after the second world war. Arenas of the cold war. Challenges to Biopolarity : Non Aligned Movement, quest for new international economic order. India and the cold war.

2. Disintegration of the 'Second World' and Collapse of Bipolarity. 12

New entities in world politics : Russia, Balkan states and Central Asian states, introduction of democratic politics and capitalism in post-communist regimes. India's relations with Russia and other post-communist countries.

3. US Dominance in World Politics :

Growth of unilateralism : Afghanistan, first Gulf War, response to 9/11 and attack or Iraq. Dominance and challenge to the US in economy and ideology. India's renegotiation of this relationship with the USA.

4. Altenative Centres of Economic and Political Power : 03

Rise of China as an economic power in post-Mao era, creation and expansion of European Union, ASEAN, India's changing relations with China.

5. South Asia in the Post-Cold War Era:

Democratisation and its reversals in Pakistan and Nepal. Ethnic conflict in Sri Lanka. Impact of econmic globalization on the region. Conflicts and efforts for peace in South Asia. India's relations with its neighbours.

6. International Organizations in a unipolar World :

Restructuring and the future of the UN. India's position in the restructured UN. Rise of new international actors; new international economic organisations, NGOs. How democratic and accountable are the new institutions of global governance?

7. Security in Contemporary World :

Traditional concerns of security and politics of disarmement, Non-traditional or human security : global poverty, health and education. Issues of human rights and migration.

8. Globalisation and Its Critics.

Economic, cultural and political manifestations, Debates on the nature of consequences of globalisation. Anti-globalisation movements. India as an areana of globalization and struggle against it.

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9. Era of On -Party Dominance :

First three general elections, nature of Congress dominance at the national level, uneven dominance at the state level, coalitional nature of Congress. Major opposition parties.

10. **Nation-Building and Its Problems :**

Nehru's approach to nation-building : Legacy of partition : challenge of refugee' resettlement, the Kashmir problem. Organisation and reorganization of states; Political conflicts over language.

11. **Politics of Planned Development**

Five year plans, expansion of state sector and the rise of new economic interests. Famine and suspension of five years plans. Green revolution and its political fallouts.

12. **India's External Relations**

Nehru's foreign policy. Sino-Indian war of 1962, Indo-Pak war of 1965 and 1971. India's nuclear programme and shifting allliances in world politics.

13. **Challenge to and Restoration of Congress System :**

Political succession after Nehru. Non-Congressism and electoral upset of 1967, Congress split and reconstitution, Congress's victory in 1971 elections, politics of 'garibi hatao'.

14. **Crisis of the Constitutional Order :**

Search for 'committed' bureaucracy and judiciary. Navnirman movement in Gujarat and the Bihar movement. Emergency: context, constitutional and extra-constitutional dimensions, resistance to emergency. 1977 elections and the formation of Janata Party. Rise of civil liberties organisations.

15. **Regional Aspirations and Conflicts**

Rise of regional parties. Punjab crisis and the anti-Sikh riots of 1984. The Kashmir situation. Challengues and response in the North East.]

16. **Rise of New Social Movements :**

Farmers' movements, Women's movement, Environment and Developmentaffected people's movements. Implementation of Mandal Commission report and its after-math.

उत्तरमध्यमा/प्राकृशास्त्री (सीनियर सेकेण्डरी)

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17. Democratic Upsurge and Coalition Politics

Participatory upsurge in 1990s. Rise of the JD and the BJP. Increasing role of regional parties and coalition politics. UF and NDA government. Elections 2004 and UPA government.

18. Regent issues and challenges

Challenge of and responses to globalization : new exonomic policy and its opposition. Rise of OBC in North Indian politics. Dalit politics in electoral and non-electoral arena. Challenge of communalism : Ayodhya dispute, Gujarat riots.

Prescribed Books

1.	समकालीन विश्व राजनीति, कक्षा (NCERT) 12 के लिए	
	Contemporary World Politics (for Class XII)	
2.	स्वतन्त्र भारत में राजनीति (NCERT)	
	Politics in Independent India	
समाज	ाशास्त्रम् / (Sociology)	100
IND	IAN SOCIETY	50
Unit	I : Structure of Indian Society	05
	Introducing Indian Society Colonialism, Nationalism	
	Class and Community	

- Demorgraphic structure
- Rural-Urban Linkages an Divisions

Unit II : Social Institutions : Continuity & Change

- Family and Kinship
- The Caste System
- Tribal Society
- The Market as a Social Institution

Unit III : Social Inequality & Exclusion

- Caste Prejudice, Scheduled Castes and Other Back ward Classes
- Marginalization of Tribal Communities.
- The Struggle for Women's Equality

15

15

•	The Protection of Religious Minorities	
•	Caring for the Differently Abled	
Unit IV : The	Challenges of Unity in Diversity	15
•	Problems of Communalism, Regionalism, Casteism & Patriarch	y
•	Role of the State in a Plural and Unequal Society.	
٠	What We Share	
Change and D	evelopment in India	50
Unit V : Proce	ess of Social Change in India	10
•	Process of Stuctural Change : Colonialism, Industrialization, Urbanization	
•	Process of Cultural Change : Modernization, Westernization, Sanskritisation, Secularization.	
٠	Social Reform Movement & Laws	
Unit VI : Socia	al Change and the Polity	10
•	The Constitution as an instrument of Social Change	
•	Parties, Pressure Groups and Democratic Politics	
٠	Panchayati Raj and the Challenges of Social Transformation	
Unit VII : Soc	ial Change & the Economy	10
٠	Land Reforms, the Green Revolution and Agrarian Society	
٠	From Planned Industrialization to Liberalization	
•	Changes in the Class Structure	
Unit VIII : Ne	w Areas of Social Change	10
•	Media and Social Change	
•	Globalization and Social Change	
Unit IX : Soci	al Movements	10
٠	Class-Based Movement : Workers, Peasants	
•	Caste-Based Movement : Dalit Movement, Backward Castes, Trends in Upper Caste Responses.	
•	Women's Movement in Independent India	

- Tribal Movements.
- Environmental Movements.

Prascribed Book

समाजशास्त्रम् कक्षा XII (NCERT) Sociology Class XII (NCERT)

जीवविज्ञानम् / (Biology)

Units

1.	Sexual reproduction	15
2.	Genetics and evolution	30
3.	Biology and human Welfare	20
4.	Biotechnology and its applications	15
5.	Ecology and environment	20

I. Sexual Reproduction

Pollination and fertilizations in flowering plants

Development of seeds and fruits.

Human reproductions : reproductive system in male and female, menstrual cycle. Production of gametes, fertilization, implantation, embryo development, pregnancy and parturition.

Reproductive health-birth control, contraception and sexually transmitted diseases.

II. Genetics and evolution

Mendelian inheritance.

Chromosome theory of inheritance. deviations from mendelian ration (gene interaction-Incomplete dominance, co-dominance, complementary genes, multiple alleles),

Sex determination in human beings: XX, XY.

Linkage and crossing over. Ingeitance pattern of haemophilia and book groups in human beings. DNA: replication, trancription, translation. Gene expression and regulation Genome and Hman Genome Project. DNA fingerprinting. Evolution: Theories and evedences.

III. Biology and Human Welfare

Animal husbandry. Basic Concepts of immunology, vaccines. Pathogens, Parasites. Plant breeding, tissue culture, food production. Microbes in household food processing, industrial production, sewage treatment and evergy generation. Cancer and AIDS

Adolescence and drug/alcohol abuse.

IV. Biotechnology and Its Applications

Recombinant DNA technology. Applications in Health, Agriculture and Industry Genetically modified (GM) organisms; biosafety issues. Insulin and Bt cotton

V. Ecology & Environment

Ecosystems : components, types and evergy flow.

Species, population and community.

Ecological adaptations.

Centres of diversity and conservation of biodiversity, National parks and sanctuaries.

Environmental issues.

Prescribed Books

जीवविज्ञानम् भाग II Biology Class XII (N.C.E.R.T.)

गणितम् / (Mathematics)

100

Ι	Relations and Functions	10
Π	Algebra	13
III	Calculus	44
IV	Vectors and three-Dimensional Geometry	17
V	Linear Progaming	06
VI	Probability	10

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी)

Units

Unit-I: Relations and Functions

1. Relations and Functions :

Types of relations : relations:, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of a function. Binary operations.

2. Inverse Trigonometric Functions :

Definition, range, domain, principal value branches. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

Unit-II : Alegebra

1. Matrices:

Concept, notation, order, equality, types of matrices, zero matrix, transpose of a matrix symmetric and skew symmetric matirices. Addition, multiplication and scale multiplication of matrices, simple properties of addition, multiplication and scale multiplication. Non-commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary tow and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entities).

2. Determinants:

Determinant of a spare matrix (up to 3×3 matrices), properties of determination of minors, cofactors and applications of determinants n finding the area of a tringle Adjoint and inverse of a square matrix. Consistencey, inconsistency and number of solutions of system of liner equations by examples, solving system of linear equation in two or three variables (having unique solution) using inverse matrix.

Unit-III : Calculus

1. Continutiy and differentiability:

Continutiy and diferentiablity, derivative of composite functions, chain rule, derivatives of inverse trigonometric functions, derivative of implicit function. Concept of exponential and logrithmic functions and their derivative. Logarithmic differentiation. Derivative of functions expressed in parametrifc-forms. Second order derivatives. Rolle's and Lgrange's Mean Value Theorems (without proof) and their geometric interpretations.

2. Applications of Derovatives:

Applications of derivatives: rate of change, increasing/decreasing functions, tangents & normals, approximation, maxima and minima (first derivative test motivated geometrically and second derivative test given as aprovable tool).

3. Integrals:

Integration as inverse process of differentiation. Intergation of a varity of functions by substitution, by partical fractions, fractions and by parts, only simple integrals of the type to be evaluated.

$$\left|\frac{dx}{x^2 \pm a^2}, \frac{dx}{\sqrt{x^2 \pm a^2}}, \left|\frac{dx}{\sqrt{a^2 - x^2}}, \left|\frac{dx}{ax^2 + bx^2 + c}, \left|\frac{dx}{ax^2 + bx + c}\right|\right.\right.$$
$$\left|\frac{(px+q)}{ax^2 + bx + c} dx, \left|\frac{(px+q)}{ax^2 + bx + c} dx, \left|\sqrt{a^2 \pm x^2 dx} and \right| \sqrt{x^2 - a^2 dx}\right.$$

Definite integrals as a limit of a sum. Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.

4. Application of the Integrals:

Applications in finding the area under simple curves, especially lines, areas of circles/ parabolas/ellipses (in standard form only), area between the two above said curves (the region should be clearly indentifiable).

5. Differential Equations:

Definition, order and degree, general and particulars solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of seperation of variables, homegeneous differential equations of first order and first degree. Solutions of linear differential equation of the type:

dy+py = q, where p and q are functions of x. dx

Unit VI : Vectors and Three-Dimensional Geometry

1. Vectors:

Vectors and scalars, magnitude and direction of a vector. Direction cosines/ratios

of vectors. Type of vectors (equal, unit, zero, parallel and collinera vectors), position vector of a point, negative of a vector, components of a vetor, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors.

2. Three-dimensional Geometry:

Direction consines/ratios of a line joining two point's. Cartesian and vector equation of a line, coplanar and skew lins, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a place.

Unit-V: Linear Programming

1. Linear Programming :

Introduction, definition of related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical inornmlation of L.P. problems, graphical method of problems in two variables, feasible and infeasible regions, feasible and infeasible solutions. optimal feasible solutions (up to three non-trivial constraints).

Unit-VI: Probability

1. Probability:

Multiplication theorem on probability. Conditional probability, independent events, total probability, 8aye's theorem, Random variable and its probability distribution, mean and variance of haphazard variable. Repeated independent (Bernoulli) trials and Binomial distribution.

Prescribed Books

गणित भाग II (कक्षा XII) (N.C.E.R.T.)
Mathematics, Part II for Class XII (N.C.E.R.T.)

भूगोल / (Geography)		100
А.	Foundamentals of Human Geography	50
	Unit 1 : Human Geography	05
	Unit 2 : People	10

	Unit 3 : Human Activites	10
	Unit 4 : Transport, communication & Trade	10
	Unit 5 : Human settlements	10
	Unit 6 : Map work	05
B.	India : People and Economy	50
	Unit 7 : People	05
	Unit 8 : Human Settlements	05
	Unit 9: Resources and Development	15
	Unit 10: Transport, Communication and International Trade	15
	Unit 11 : Geographical Perspective on selected issues and problems	05
	Unit 12 : Map Work	05

A. Fundamentals Human Geography

Unit 1 : Human Geography : Nature and Scope

Unit 2 : People

- Population-distribution, density and growth
- Population change-spatial patterns and structure; determinants of population change;
- Age-sex ratio; rural-urban composition:
- Human development-concept; selected indicators, international compari-sons

Unit 3 : Human Activities

- Primary activites-concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agricultural and allied activities-some examples from selected countries;
- Secondary activities-concept; manufacturing: agro-processing, household, small scale, large scale; people enagaged in secondary activities-some examples from selected countries;
- Tertiary activities-concept; trade, transport and communication; services; people engaged in tertiary activities-some examples from selected countries.
- Quaternary activities-concept; knowledge based industries; people enagaged in quaternary activities-some examples from selected countries.

Unit 4 : Transport, Communication and Trade

- Land transport-rods, railways; trans-continental railways;
- Watertransport-inland waterways; major ocean routes;
- Air Transport-Intercontinental air routes;
- Oil and gas pipelines;
- Satelite communication and cyber space
- International trade-Bases and changing patterns; ports as geteways of international trade, role of WTO in International trade.

Unit 5 : Human Settlements

• Settlement types-rural and urban; morphology of cities (case study); distribution of mega cities; problems of human settlements in developing countries.

Unit 6 : Map work on identification of features based on above units on the Political map of World

Part B. India : People and Economy

Unit 7 : People

- Population: distribution, density and growth; composition of population linguistic; sex, rural-urban and occupational change through time-regional variations;
- Migration: international, national-cause and consequences;
- Human developments selected indicators all regional patterns;
- Population, environment and development.

Unit 8 : Human Settlements

- Rural settlements-types and distribution;
- Urban settlements-types, distribution and functional classification.

Unit 9 : Resources and Development

- Land resources-general land use; agricultural land use, Distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugarcane and Rubber), agricultural development and problems.
- Water resources-availability and utilization-irrigation, domestic, industrial and other uses; scarcity of water and conservation methods-rain water harvesting, and watershed management.

- Mineral and energy resources distribution of metallic (Ironore, Copper, Bauxite, Managanese) non-metallic (Mica, Salt) minerals; conventional (Coal, Petroletun, Natural gas and Hydro electricity) and non-conventional *energy* sources (solar, wind, biogas).
- Industries-types, industrial allocation and clustering; distribution and changing pattern of selected industries-iron and steel, cotton textiles, sugar, petrochemicals, and knowledge based industries; impact of liberalization, privatisation aid globalisation on industrial location;
- Planning in India-target area planning (case study); idea of sustainable development (case study)

Unit 10: Transport, Communication and International Trade

- Transport and communication, roads, waterways and airways: oil and gas pipelines; national electric grids; communication networking-radio, television, satellite and internet;
- International trade-changing pattern of India's foreign trade: sea ports and their hinterland and airports.

Unit 11 : Geographical Perspective on Selected Issues and Problems

- Environmental pollution; urban -waste disposal.
- Urbanisation-rural-urban migration; problem of slum.
- Land Degradation.

Unit 12 : Map work on locating and belling of features based on above units and outline political map of India.

Prescribed Book

भूगोल कक्षा XII (N.C.E.R.T.)

Geography for Class XII (N.C.E.R.T.)

षष्ठं पत्रम्-वेदः/व्याकरणम्/साहित्यम्/ज्यौतिषम्/दर्शनम्/जैनदर्शनम्/बौद्धदर्शनम् 100

100

- (अ) शुक्लयजुर्वेदे रुद्राष्टाऽध्यायी (पञ्चमाध्यायत: अष्टमाध्यायपर्यन्तम्)
 सस्वरमन्त्रकण्ठस्थीकरणम्
 70
- (ब) स्वराणां सामान्यपरिचय: 30

उत्तरमध्यमा/प्राक्शास्त्री (सीनियर सेकेण्डरी)

वेदः

व्याकरणम्	·	100	
वैयाकरणसिद्धान्तकौमुदी, अजन्तपुल्लिंगादारभ्य अव्यान्तो भागः			
अङ्कविभाजनम्–			
(1	।) अजन्तपुल्लिंगप्रकरणम्	25	
(2	2) अजन्तस्त्रीलिंगाप्रकरणम्	10	
(3	3) अजन्तनपुंसकलिंगप्रकरणम्	10	
(4	1) हलन्तपुल्लिंगप्रकरणम्	20	
(5	5) हलन्तस्त्रीलिंगप्रकरणम्	15	
(6	5) हलन्तनपुंसकलिंगप्रकरणम्	15	
(7	7) अव्ययप्रकरणम्	05	
साहित्यम्		100	
चन	न्द्रालोक: प्रथममयूख:		
ज्यौतिषम् 100			
(1	।) लघुजातकम्	60	
(2	 भास्करीयबीजगणितम्, चक्रवालपर्यन्तम् 	40	
दर्शनम् 100			
अः	र्थसंग्रहः		
जैनदर्शनम् 100			
पर्र	ोक्षामुखसूत्रम्, माणिक्यनन्दिविरचितम्		
बौद्धदर्शनम् 100			
पालिप्रवेशिका (कोमलचन्द्रजैन)			
सप्तमं पत्रम् - संगणक विज्ञानम् (Computer Science) 100			
Unit I			
1. In	troduction to Internet	3 sessions	
Al	Internet, Growth of Internet, Owners of the Internet, anatomy of Internet, ARPANET and internet history of the World Wide Web, Basic Internet Terminology, Net etiquette.		

Internet Applications-Commerce on the Internet, Governance on the Internet, Impact of Internet on Society-Crime on/through the Internet.

2. World wide Web

Evolution of WWW, Basic features, WWW Browsers, WWW Server, HTTP, Universal Resource Locator (URL), Search Engines and their Categories, Searching Criterion, WWW and Hypertext.

3. **Browsers**

Basic features, Bookmarks, history, Progress indicators, Customization of Browsers, saving and printing web pages, Netscape Comni Network & Wide area Network

Addressing in Internet: DNS, Domain Name and their organization, unicator, -Internet Explorer

4. **Electronic mail**

Introduction of e-mail, Email Networks and Servers, Email protocols - SM1P, POP3, PMAP4, MIME6.

Structure of an Email-Email address, Email Header, Body and Attachments.

Email Clients: Netscape Mail Clients, Outlook Express, Web based E-mail Email encryption-Address bok Signature file.

5. HTML

Document Layout, Header Elements, section Headings, Block-oriented elements, lists, inline elements, Visual markup, Hypertext links, Uniform resource Locators (URLs), Images, Forms, Tables and Special Charcters. Pracical work based on HTML.

Rev	vision	2 sessions
Uni	it II	1 session
5.	Introduction to Business Data Processing	

Overview of Business System:

Management functions, Levels of management, Information requirements for planning, coordination and control for various levels in Business, Industry and Government.

Profile of data in business systems: 6 sessions Large volumes of data and data handling implicit, identification of relevant data. Classification of data elements by function and by source, primary and secondary. Historical data for reference and analysis. Need or ensuring accurate, reliable and timely processing of data. Basic

उत्तरमध्यमा/प्राकृशास्त्री (सीनियर सेकेण्डरी)

6 sessions

15 sessions

4 sessions

3 sessions

6 sessions

tasks in business data processing, data origination, capture, sorting, merging, calculating, summarizing, managing output-results, sorting and retrieving transmission, both interim and final, examples of business data processing and applications payroll, financial, accounting, inventory, etc.

Computer system as a potential tool to meet business data processing needs, facilities available in computerized systems for data capture; online and offline; validation; storage; processing and output; transmission.

6. Introduction to Visual Fox Pro

20 sessions

- 6.1 **Introduction to Visual FoxPro:** The menu system, file types, The Toolbars, Visual Design and Wizards, The Command Window and View window, Other features of Visual FoxPro interface.
- 6.2 **Tables in Visual FoxPro:** Creating a new Table, Table wizard, using Table Designer, Using Tables, Opening a table, Working on a table, Modifying a table
- 6.3 **Managing Data:** Switching from Browse to Edit display, Entering and Editing Data, Appending data, Editing data, Moving through a Table, Go To Record command, Find and Replace, Deleting a Record, Altering the Display of the Browse Window
- 6.4 **Using Queries:** Creating a Query Wizard, Query Designer, Running the Query, Using the Using the Query, the Cross Tab Wizard, Modifying the Query, The Query Designer.

7. Overview of Business Applications 8 sessions Design, analysis and development of: Computerized Financial Accounting, Computerized Inventory Control, and Computerized Payroll, Computerized

involeniz application	
Revision	2 sessions
Unit II Test	1 session
Revision	Remaining sessions

* * *

Invoicing application