

ENGLISH CORE
CLASS – XI

English Core Course (for a paper of 100 marks)

DISTRIBUTION OF MARKS

1)	Prose	-	25 marks
2)	Poetry	-	25 marks
3)	Supplementary Reader	-	15 marks
4)	Grammar & Composition		
	a) Reading – Unseen Passages	-	10 marks
	b) Writing	-	10 marks
	c) Grammar & Usage	-	15 marks

Total = 100 marks

I. Prose

Pieces To Be Read:

1. 'We're Not Afraid to Die ... If We Can All Be Together' – *by Gordon Cook and Alan Frost*
2. The Ailing Planet: The Green Movements' Role – *by Nani Palkhivala*
3. Giant Despair – *by John Bunyan*
4. The Portrait of a Lady – *by Khushwant Singh*
5. The White Seal Adapted and Abridged from The Jungle Book – *by Rudyard Kipling*

II. Poetry

Pieces To Be Read:

1. The Kingfisher – *by W. H. Davies*
2. The Striders – *by A. K. Ramanujan*
3. To The Pupils of Hindu College – *by H. L. V. Derozio*
4. Childhood – *by Marcus Nattan*
5. In Paths Untrodden – *by Walt Whitman*

Textbook Prescribed for Prose & Poetry:- Resonance Class XI

Published by - Macmillan India Ltd., S. C. Goswami Road,
Pan Bazar, Guwahati – 781001.

III. Supplementary Reader

Pieces To Be Read (Any two of the following pieces):

1. On Doing Nothing – *by J. B. Priestly*
2. Talking of Space – Report on Planet Three – *by Arthur C. Clarke*
3. A Devoted Son – *by Anita Desai*

Textbook Prescribed: Voices Classes XI & XII
Published by - Macmillan India Ltd., S. C. Goswami Road,
Pan Bazar, Guwahati – 781001.

IV. Grammar & Composition

The Prescribed Portions are:

1. **Reading:** Unseen Passages for (Comprehension and note taking in various topics and situations)
2. **Writing:** Reports/Essays/Letters
3. **Grammar & Usage** (To be put in objective format only)
 - a) Determiners
 - b) Tenses
 - c) Active & Passive Constructions
 - d) Use of Idioms and Phrases
 - e) Transformation of Sentences

Textbook Prescribed: English Grammar & Composition
Published by - Pearson Education, 482 F. I. E. Patparganj,
New Delhi – 110092, India.

ALTERNATIVE ENGLISH
CLASS – XI

Alternative English (For a paper of 100 marks)

DISTRIBUTION OF MARKS

1.	Prose	-	25 marks
2.	Poetry	-	25 marks
3.	Short Plays	-	20 marks
4.	Grammar & Composition		
	a) Reading Unseen Passages (Comprehension)	-	10 marks
	b) Precis Writing	-	10 marks
	c) Grammar & Usage	-	10 marks
Total =			100 marks

I. Prose

Pieces To Be Read:

1. The Face on the Wall – *by E. V. Lucas*
2. Sparrows – *by K. A. Abbas*
3. Love Across The Desert – *by K. N. Dharuwala*
4. The Redemption – *by Victor Hugo*
5. The Castaway – *by Rabindranath Tagore*

II. Poetry

Pieces To Be Read:

1. Ode on a Grecian Urn – *by John Keats*
2. Laugh and Be Merry – *by John Masefield*
3. A Baby Running Barefoot – *by D. H. Lawrence*
4. Light Shining Out of Darkness – *by William Cowper*
5. To India – My Native Land – *by H. L. V. Derozio*

III. Short Plays

The Prescribed Plays are:

1. Abraham Lincoln – *by K. N. Devidas*
- Or*
2. Julius Caesar – *by William Shakespeare*

Textbook Prescribed for Prose/Poetry/Short Plays: Imprints Class XI

Published by - Macmillan India Ltd.,
S. C. Goswami Road, Pan Bazar,
Guwahati – 781001.

IV. Grammar & Composition**The Prescribed Portions are:**

1. **Reading** – (Comprehension) Passages with a variety of questions based on **Vocabulary and Comprehension**
2. **Writing** – Precis Writing
3. **Grammar & Usage:**
 - a) Correction of grammatical errors in the given sentences
 - b) Agreement between subject and verb
 - c) Direct/Indirect Speech
 - d) Use of Prepositions
 - e) Use of Articles

Textbook Prescribed:

Published by -

English Grammar & CompositionPearson Education, 482 F. I. E. Patparganj,
New Delhi – 110092, India.

ENVIRONMENTAL EDUCATION
CLASS – XI

(TO BE ASSESSED INTERNALLY BY AWARDING GRADES)

Topics To Be Read:

Unit I: Man and Environment (20 Marks)

Chapter 1: Dimensions of Environment

Physical, biological and social dimensions; Environment dimensions; Exchange of heat between the earth and its atmosphere; Physical realms of the earth; The realm of the land; The biological environment; Social Environment.

Chapter 4: Population and Environment

Meaning and importance of population study; Population theories; World population growth; Population and environmental issues.

Chapter 5: Impact of Human Activities on the Environment

Environmental problems of urban and rural areas; Natural Resources and their depletion; Classification of Natural Resources; Depletion of soil; Depletion of plant resources; Stress on Civic Amenities and Supply of Water; Waste Disposal; Transport; Health Services; Vehicular Emission; Urbanization; The Housing Crisis; Migration; Floating Population.

Unit II: Environment and Development (10 Marks)

Chapter 7: Agriculture and Industrialization

Historical background of the role of agriculture and industry in development; Localisation of Industrial Plants; Impact of industrialization on agricultural development.

Chapter 9: Impact of Development on Environment

Changing pattern of land use; Reclamation of land; Deforestation; Resource depletion; Pollution; Industrial pollution; Environment degradation.

Unit III: Environmental Pollution and Global Issues (30 Marks)

Chapter 12: Air, Water and Soil Pollution

Air Pollution; Water Pollution; Soil Pollution.

Chapter 20: Strategies of Reducing Pollution

Air pollution control strategies; Strategies to reduce soil pollution; Strategies to reduce water pollution. (Chapters 12 and 20 to be studied together)

Chapter 17: Green House Effect

Green House Effect; Effects of global warming and climatic changes on human society; Biological impacts of global warming.

Chapter 18: Pollution Related Diseases

Diseases caused by air and water pollution; Disease of the modern age.

Unit IV: Energy**(10 Marks)****Chapter 22: Conventional Sources of Energy**

Conventional energy sources; Fossil fuels; Coal; Petroleum; Firewood; Energy situation in India.

Chapter 23: Non – Conventional Sources of Energy

Biomass energy; Solar energy; Wind energy; Ocean power (Tidal waves and thermal); Wave energy; Ocean thermal energy conversion; Nuclear energy; Hydel power; Geothermal energy.

Chapter 24: Conservation of Energy Resources

Effects to conserve energy resources; Conserving energy resources in industries; Conserving energy resources in agriculture; Conserving energy resources in the transport sector.

- **One Exemplar Project/Activity may be completed in a year from the suggested list in the textbook. (30 Marks)**

Book Recommended:

Published by -

Frank Environmental Education Class XI

Frank Brothers & Co. Publishers Ltd.,
136 Moti Lal Nehru Road,
Opp. Pan Bazar Girls' Higher Secondary School,
Guwahati – 781001.

ASSAMESE (MIL)
CLASS – XI

DISTRIBUTION OF MARKS

1.	Prose	-	30 marks
2.	Poetry	-	25 marks
3.	Rapid Reader	-	15 marks
4.	Grammar & Composition	-	30 marks

Total = 100 marks

I. Prose

Pieces To Be Read:

1.	Bor Boruahar Kobita Bedona	–	Lakhinath Bezbarua
2.	Jibonor Santiparba	–	Satyanath Bora
3.	Badha Kavya	–	Dr. Birinchi Kr. Boruah
4.	Asomor Khel Dhemali	–	Narayan Sharma

II. Poetry

Pieces To Be Read:

1.	Borgeet	–	Madhab Dev
2.	Bon Kunwari	–	Chandra Kr. Agarwala
3.	Lachit Phukan	–	Debakanta Baruah
4.	Ekhon Chithi	–	Hem Barua

Book Recommended for Prose & Poetry: Sahitya Saurav

Published by - Jyoti Prakashan, Jasowanta Road,
Pan Bazar, Guwahati – 781001.

III. Rapid Reader: Drama

Book Recommended: Chiraj: Phani Sarma – Pratham Anka (Page 01 to 25)

IV. Grammar & Composition

Pieces To Be Read:

1. Pada Prakaran, Karak & Samash
2. Amplification & Sentence Making
3. Substance Writing
4. Sentence Making with Phrases and Idioms

Book Recommended:

1. Pravesika Rachana Sikkha: Giridhar Sarma
2. Rachana Bichitra: Dharma Singha Deka
3. Bahal Byakaran: Satyanath Bora

BENGALI (MIL)
CLASS – XI

DISTRIBUTION OF MARKS

1.	Prose	-	25 marks
2.	Poetry	-	20 marks
3.	Drama	-	15 marks
4.	Composition		
	a) Potro Likhon	-	6 marks
	b) Bhab Somprasaran	-	7 marks
	c) Prabandha Rachana	-	7 marks
5.	Grammar		
	a) Bakya Paribartan	-	5 marks
	b) Sadhu – O – Chalit Bhasha	-	5 marks
	c) Praband – Pracharan	-	5 marks
	d) Bagdhara	-	5 marks

Total = 100 marks

I. Prose

Pieces To Be Read:

1. Sitar Banobas – *by Iswar Chandra Bidyasagar*
2. Bhanu Singher Patro – *by Rabindranath Tagore*
3. Mahesh – *by Sharat Chandra Chattopaddhay*

II. Poetry

Pieces To Be Read:

1. Purborag – *by Chandi Das*
2. Jiban Bandana – *by Nazrul Islam*
3. Abar Asibo Phire – *by Jibanananda Dash*

III. Drama: Udbastu (Selected Part from ‘Natun Ihudi’) by Salil Sen

Textbook Recommended: Uchcho Madhyamik Path Sankalan (MBOSE Publications)

Printed & Distributed by - C & P Enterprises, Educational Publishers,
M. C. Road, Guwahati – 781003.

IV. Grammar & Composition (No textbook has been recommended)

The Recommended Portions are:

- | | |
|----------------------|-----------------------------|
| 1. Patro Likhon | 5. Sadhu – O – Chalit Bhasu |
| 2. Bhab Samprasaron | 6. Praband - Prabachan |
| 3. Prabandha Rachana | 7. Bagdhara |
| 4. Bakya Paribartan | |

GARO (MIL)
CLASS – XI

DISTRIBUTION OF MARKS

1.	Prose	-	35 marks
2.	Poetry	-	35 marks
3.	Essay	-	15 marks
4.	Agan Me·apa/Ku·jikse	-	15 marks
Total =			100 marks

I. Prose

The Prescribed Pieces are:

1. Nikgijagipa Gam – *Fridina K. Marak*
2. A·chik Jatni Ku·riting Agananirango Jajong aro Askirangni Gimin Aganani –
Dewansing S. Rongmuthu
3. Japan Nokdang – *Rev. Gilbert K. Marak*

Recommended Textbook: **A·chikni Chanchibewale Seanirang**
Compiled and edited by – K. M. Momin,
Tura Book Room, Tura.

II. Poetry

The Prescribed Pieces are: Salingni Agana

Recommended Textbook: **Seokgimin Poetryrang – by D. S. Nengminza**
Tura Book Room

- III. Essay Writing (Unseen)** }
IV. Agan Me·apa/Ku·jikse }

Recommended Textbook: **A·chik Composition by Keneth M. Momin,**
Tura Book Room, Tura.

HINDI (MIL)
CLASS – XI

DISTRIBUTION OF MARKS

1.	Prose	-	25 marks
2.	Poetry	-	25 marks
3.	Rapid Reader	-	20 marks
4.	Grammar & Composition		
	a) Essay Writing	-	10 marks
	b) Letter Writing	-	10 marks
	c) Unseen Passage	-	10 marks

Total = 100 marks

I. Prose

Pieces To Be Read:

1. Namak Ka Daroga – *by Premchand*
2. Apu Ke Saath Dhai Saal – *by Satyajit Ray*
3. Galta Loha – *by Shekhar Joshi*
4. Jamun Ka Per – *by Krishnachander*
5. Bharat Mata – *by Jawaharlal Nehru*
6. Atma Ka Taap – *by Sayyad Haider Raza*

II. Poetry

Pieces To Be Read:

1. Hum Nau Ek Ek Kari Jana – *by Kabir*
2. Mere To Giridhar Gopal, Dusro Na Koi – *by Meera*
3. Wah Aankhe – *by Sumitranandan Pant*
4. Ghar Ki Yaad – *by Bhawani Prasad Mishra*
5. Hai Bhukh! Mat Machal – *by Akkash Mahadevi*
6. Aao Milkari Bachae – *by Nirmala Putul*

Textbook Prescribed for Prose & Poetry: Aroh – Hindi Core (NCERT)

III. Rapid Reader

Pieces To Be Read:

1. Bhartiya Gayiko Mei Bejor: Lata Mangeshkar – *by Kumar Gandharu*
2. Rajasthan Ki Rajat Bunde – *by Anupam Mishra*
3. Aalo – Aandhari – *by Baby Haldar*

Textbook Prescribed: Vittan Hindi Suppo I (Core) (NCERT)

IV. Grammar & Composition

a) Composition

The Prescribed Portions are:

1. Essay Writing
2. Letter Writing
3. Unseen Passage

b) Grammar

1. Shrutisan Bhinnarthak Shabd
2. Anekarthi Shabd
3. Anek Shabdo Badle Ek Shabd
4. Paryawachi
5. Velomi
6. Muhaovre
7. Lokoktiyan

Textbook Prescribed: Hindi Vyakaran Aur Vyavahar, NCERT

KHASI (MIL)
CLASS – XI

DISTRIBUTION OF MARKS

1)	Prose	-	40 marks
2)	Poetry	-	45 marks
3)	Essay (Unseen)	-	15 marks

Total marks = 100 marks

1. Prose

Textbooks Recommended

- i) Ki Syntiew Ha Ranab by W. Kharkrang -
- ii) Na Sla Ka Sohmyndur by Sweety Mon Rynjah -

Pieces To Be Read

- Chapter 4: U Blei U Iohi Ia
Kiei Kiei Baroh
Chapter 5: Ban Aiti Namar
Kiwei
Chapter 3: Ki Matti U
Longshwa
Chapter 14: Ban Ieng Ha La
Ki Kjat

2. Poetry

Textbooks Recommended

- i) Ka Samoi Jong Ka Lyer by K. S. Nongkynrih -
- ii) Ka Jingsneng Tymmen (Part I) by R. S. Berry -
- iii) Ki Poetry Khasi by V. G. Bareh -
- iv) Na Nengpei Ki Sur Myllung by B.C. Jyrwa -

Pieces To Be Read

- i) Tang Ki tiew Pher Ki La
Wan Sei Kynthong
ii) Ka Prem Miet Harud Ka
Tyllong Wah Umkrah
Chapters I to X
Chapter 4: Tiewdohmaw Ha
Shiteng Riat
Chapter 5: Pyrem
Chapter 3: Ka Por Samla
Chapter 11: U Nongshnadur

3. Essay – Unseen

MIZO (MIL)
CLASS – XI

DISTRIBUTION OF MARKS

A.	Hla (Poetry)	-	20 marks
B.	Thu (Prose)	-	20 marks
C.	Thawnthu leh lemchan	-	15 marks
D.	Grammar	-	15 marks
E.	Chhiar (Pakhat, text bu pawn)-	-	10 marks
F.	Ziak	-	20 marks

Total = 100 marks

A. Hla (Poetry)

Pieces To Be Read:

1.	Ka Va Ngai Em Lalram Ropui	-	Hleia
2.	Awmhar Huiva	-	Liangkhaia
3.	Kawltuchawia	-	Chhuana
4.	Khawngai Hnuchham	-	Vankhama
5.	Hraite Khawngge I Chûn Ve Kha	-	Rokunga
6.	Chhingkhual Tha Lengheri	-	Laltanpuia
7.	Zofa Kan Dinhmun Hi	-	L. Z. Sailo
8.	An Dang Chuang Lo Ve	-	Suakliana
9.	Phu Loh Thahmingliani	-	F. Rokima
10.	Duhaisâm	-	T. Zorampela

B. Thu (Prose)

Pieces To Be Read:

1.	Buaina	-	Darchhawna
2.	Anni Leh Keini	-	Siamkima Khawlhiring
3.	Intodelh	-	Lalzuia Colney
4.	Hmanlai Nula Leh Tlangval Nun	-	B.Lalthangliana
5.	Leilung Hi Pathain Siam A Ni	-	P. L. Liandinga (Lehlin)
6.	Zoram Par Mawi	-	C. Rokhuma
7.	Chanchin Tha Malsawmna	-	Z. T. Sangkhuma
8.	Music	-	Sangzuala

C. Thawnthu leh lemchan

Pieces To Be Read:

1.	Rauthla Leng (Thamnthu)
2.	Kalkhama Leh Lianphunga (Lemchan)

D. Grammar**Pieces To Be Read:**

1. Mood
2. Synonym & Antonym
3. Tawng upa (Class X - a zir loh 100)

E. Chhiar**Pieces To Be Read:**

Text Bu Pawn Lam Thuziak Naupangin An Hritthiam Dan Enna Tur

Zirlaibu pawn (unseen passage) a mi thuziak pakhat, word 1000 vel, lakchhuah a, chumi atang chuan zawhna eng emaw zat siam tur a ni. Thumal awmzia an hriat loh zawhna mark 2 pu tel se.

Thuziak chu hetiang atanga lak tur a ni:

- (a) Factual passage
- (b) Discussion passage

F. Ziak**Pieces To Be Read:**

1. Essay ziak
2. Report leh minute ziah. Thil thleng chanchin ziah
(Thil ziah te hi ni tin chanchinbu leh School magazine a chhuah tlak tur ni se)
3. Lekhathawn: Lekhathawn ziah ngai chi hrang hrang ziah thiam. Hengte hi zirtir tel ngei ni se
 - (i) Sawrkara lehkha thehluh tur ziah (lehkha pangngai bakah complaint, enquiries etc. leh a chhan letna thlengin)
 - (ii) Kohhran leh tlawmngai pawl te hnena lekhathawn
 - (iii) Chanchinbu mite hnena lekhathawn
 - (iv) Hna dilna

Books Recommended :

- a) **Prose & Poetry**
Mizo – XI (Core) – by MBSE
- R. D. Print Tech, Near Vanapa Hall, Treasury Square,
Aizawl - 796001.
- b) **Grammar & Composition**
Mizo Grammar & Composition for Class XI & XII by MBSE
- Milan Press, Zodin Square, Aizawl - 796001.

NEPALI (MIL)
CLASS – XI

DISTRIBUTION OF MARKS

Section A	Literature		
	(a) Short Story	-	20 marks
	(b) Essay	-	20 marks
	(c) Poetry	-	20 marks
Section B	Grammar	-	15 marks
Section C	Reading Unseen	-	10 marks
Section D	Composition and Writing	-	15 marks
Total =			100 marks

Section A: Literature

(a) **Story** – The following stories are to be read: **(20 marks)**

- | | | |
|-------------------------|---|------------------------|
| (i) Madhu | - | Indra Sundas |
| (ii) Mero Auta Nagahuki | - | Hari Prasad Gorkha Rai |
| (iii) Chimeki | - | Guru Prasad Mainali |
| (iv) Aama | - | Bikram Bir Thapa |

(b) **Essay** – The following stories are to be read: **(20 marks)**

- | | | |
|----------------------------------------|---|-----------------------|
| (i) Virharu | - | Laximi Prasad Devkota |
| (ii) Nepali Sanskritima Madal Ko Sthan | - | Lil Bahadur Chettri |
| (iii) Hamro Sanskriti | - | Krishna Prasad Gewali |
| (iv) Nakal | - | Rubi Neupane |

(c) **Poetry** – The following poems are to be read : **(20 marks)**

- | | | |
|--------------------|---|------------------------|
| (i) Nav Yuvak | - | Madhav Ghimire |
| (ii) Bhikari | - | Laximi Prasad Devkota |
| (iii) Hami Bahadur | - | Agam Singh Giri |
| (iv) Barsha Wichar | - | Lekhnath Paudyal |
| (v) Vidyarthi Sita | - | Mani Singh Thapa |
| (vi) Shillong | - | Krishana Prasad Gewali |

Section B: Grammar: The following chapters are to be read: **(15 marks)**

- (i) Swar Varna
- (ii) Vanjan Varna
- (iii) Matra Parichaya
- (iv) Wakya Parichaya
- (v) Samas
- (vi) Ukhan Ra Tukka

Section C: Reading (Unseen) **(10 marks)**

Section D: Composition and Writing**(15 marks)**

- (i) Comprehension Writing
- (ii) Essay Writing
- (iii) Letter Writing

Textbook Prescribed:

1. **Uchha Madhyamik Nepali Sahitya**
- by Textbook Committee (Nepali) Shillong – 2.
2. **Madhyamik Nepali Vyakaran Ra Rachana**
- by Shree Raj Prakashan, Darjeeling
3. **Ramro Rachana Mitho Nepali**
- by Krishna Prasad Parajuli Sahayogi Press, Kathmandu

POLITICAL SCIENCE
CLASS – XI

DISTRIBUTION OF MARKS

1)	Course I - Political Theory	-	50 marks
2)	Course II - The Indian Constitution and Political System	-	50 marks

Total = 100 marks

Course I – Political Theory		Periods	Marks
Unit I	Definition, nature, scope and importance of Political Science State Nation	18	8
Unit II	The Process of Mobilization: Public Opinion, Political Party, Pressure Groups and Interest Groups.	18	14
Unit III	The Organs of the Government: The Executive The Legislature The Judiciary	20	14
Unit IV	Forms of Government and Structure of Government	18	14
Course II – The Indian Constitution and Political System in Operation			
Unit V	Framing of the Indian Constitution	20	14
Unit VI	Indian Federalism	15	14
Unit VII	Government in the States: The Governor The Chief Minister The State Legislature The State Judiciary	25	14
Unit VIII	Local Self – Government	16	8
Total		150	100

Course I: Political Theory (I)

Periods: 74

Unit I – Definition, nature, scope and importance of Political Science
Political Science as a science; the Normative and the Empirical approaches
The State – Definition and elements; state and society, state and association, state and government.

Nation – Meaning, characteristics; distinction between state and nation.

(8 marks) (18 periods)

Unit II – The Process of Mobilization: Public Opinion – meaning, agencies and its importance in democracy.

The Political Party – Definition, characteristics and functions. Kinds of party system – Single party system, Bi-party system and Multi-party system, their merits and demerits; the role of the Opposition in a democracy.

Pressure groups and Interest groups – Meaning, general characteristics, their role and functions; differences between pressure groups and interest groups; differences between political parties and pressure groups. **(14 marks) (18 periods)**

Unit III – The Organs of the Government:

The Executive – Meaning of Executive, kinds of Executive and functions of the Executive. Importance of the Executive.

The Legislature – Meaning, functions of the Legislature and the types of legislatures. The Judiciary – Meaning of Judiciary, functions of the Judiciary, conditions for the independence of the Judiciary. **(14 marks) (20 periods)**

Unit IV – Forms of Government: Democracy – Direct and Indirect or Representative Democracy; the Devices of Direct Democracy – Referendum, plebiscite, recall and initiative. Merits and demerits of direct and indirect democracy.

Dictatorship – Meaning, characteristics, merits and demerits.

The Structure of Government: Unitary and Federal government – Characteristics, merits and demerits; Parliamentary and Presidential government – characteristics, merits and demerits. **(14 marks) (18 periods)**

Course II: The Indian Constitution and Political System in operation Periods: 76

Unit V – Framing of the Indian Constitution; Sources of the Indian Constitution; Philosophy of the Indian Constitution – the Preamble; Salient features of the Indian Constitution; **(14 marks) (20 periods)**

Unit VI – Indian Federalism: Meaning, need for federalism in India; Nature and features of Indian federalism.

Amendments – Need for amendment and procedure for amendment.

(14 marks) (15 periods)

Unit VII – Government in the States: The Governor – Appointment, powers and functions.

The Chief Minister and the Council of Ministers.

The State Legislature: The Legislative Assembly – composition, qualifications of members, term of office, resignation and removal, quorum, privileges, powers and functions.

The Speaker – election, removal, functions.

The Legislative Council – composition, qualifications of members, term of office, privileges, quorum, presiding officers, powers and functions.

The State Judiciary: The High Court – composition, qualifications of Judges, appointment, term of office and removal. Powers and functions of the High Court.

Subordinate Courts in the states.

(14 marks) (25 periods)

Unit VIII – Local Self-Government: meaning, importance, Local Self-Government and Democracy.

The District Council (with reference to Meghalaya) – constitutional provisions, composition, tenure, powers and functions, workings, importance.

Rural Local Self-Government: Panchayati Raj System – essence and need, composition, functions relating to agriculture, public works, sanitation, education, village defence, welfare, forests and environment etc,

Traditional Institutions in Meghalaya: Nokmaship, Doloiship, Syiemship.

(8 marks) (16 periods)

Recommended Textbook: Political Science for Class XI

Published by - Pearson Education, Dorling Kindersley (P) Ltd.
482 F.I.E. Patparganj, Delhi - 110092.

Suggested reading materials:-

1. Political Science (for +2 stage)
Theory and Constitution
Volume I & II
Author: Durga Kant Sarmah (Wiley Eastern Limited)
2. Political Science - An Introduction
Textbook for Class XI
Author: S.N. Jha
Editor: Nalini Pant (NCERT – 2002)
3. Indian Constitution and Administration
Textbook for Class XI
Author: B.L. Garg
Editor: Nalini Pant (NCERT – 2002)

HISTORY
CLASS – XI

DISTRIBUTION OF MARKS

Question Type	Section	No. of Questions	Marks for each Questions	Total Marks	Grand Total
A. Objective Type					
i) Multiple Choice } ii) Fill up the blanks } iii) Very Short Answer } iv) Short Answer }	I II	10 10 10 10	× 01 × 01 × 01 × 02	10 10 10 10	} 30 } 20
Total					50
B. Descriptive Type	-	04	× 12	48 (+) 02 for Cleanliness (is a must)	50
Total					100

Themes	Objectives
<p>I. EARLY SOCIETIES</p> <p>1. From the Beginning of Time Focus: Africa, Europe till 15000 BC (a) Views on the origin of human beings (b) Early societies Debate on present – day hunter – gatherer societies.</p> <p>2. Early Cities Focus: Iraq, 3rd millennium BC (a) Growth of towns (b) Nature of early urban societies Debate on the uses of writing</p>	<ul style="list-style-type: none"> • Familiarise the learner with ways of reconstructing human evolution. • Discuss whether the experience of present – day hunting – gathering people can be used to understand early societies. • Familiarise the learner with the nature of early urban centres. • Discuss whether writing is significant as a marker of civilization.
<p>II. EMPIRES</p> <p>3. An Empire across Three Continents Focus: Roman Empire, 27 BC to AD 600. (a) Political Evolution (b) Economic expansion (c) Religion (d) Late Antiquity Debate on the institution of slavery.</p>	<ul style="list-style-type: none"> • Familiarize the learner with the history of a major world empire. • Discuss whether slavery was a significant element in the economy.

<p>4. Central Islamic Lands Focus: 7th to 12th centuries (a) Polity (b) Economy (c) Culture Debate on the nature of the Crusades.</p> <p>5. Nomadic Empires Focus: The Mongol, 13th to 14th century (a) The nature of nomadism (b) Formation of empires (c) Conquests and relations with other states Debate on nomadic societies and state formation.</p>	<ul style="list-style-type: none"> • Familiarize the learner with the rise of Islamic empires in the Afro – Asian territories and its implications for economy and society. • Understand what the crusades meant in these regions and how they were experienced. • Familiarize the learner with the varieties of nomadic society and their institutions. • Discuss whether state formation is possible in nomadic societies.
<p>III. CHANGING TRADITIONS</p> <p>6. Three Orders Focus: Western Europe, 9th – 16th century. (a) Feudal society and economy (b) Formation of states (c) Church and society Debate on decline of feudalism.</p> <p>7. Changing Cultural Traditions Focus on Europe, 14th to 17th century. (a) New ideas and new trends in literature and arts (b) Relationship with earlier ideas (c) The contribution of West Asia Debate: Is the notion ‘European Renaissance’ valid?</p> <p>8. Confrontation of Cultures Focus on the Americas, 15th to 18th century. (a) European voyages of exploration (b) Search for gold; enslavement, raids, extermination (c) Indigenous people and cultures – the Arawaks, the Aztecs, the Incas. (d) The history of displacements. Debate on the slave trade.</p>	<ul style="list-style-type: none"> • Familiarize the learner with the nature of the economy and society of this period and the changes within them. • Show how the debate on the decline of feudalism helps in understanding processes of transition. • Explore the intellectual trends in the period. • Familiarize students with the paintings and buildings of the period. • Discuss changes in European economy that led to the voyages. • Discuss the implications of the conquests for the indigenous people. • Explore the debate on the nature of the slave trade and see what this debate tells us about the meaning of these “discoveries”.

<p>IV. PATHS TO MODERNIZATIONS</p> <p>9. Displacing Indigenous People Focus on North America and Australia, 18th – 20th century. (a) European colonists in North America and Australia. (b) Formation of White settler societies. (c) Displacement and repression of local people. Debate on the impact of European settlement on indigenous populations.</p> <p>10. The Industrial Revolution Focus on England, 18th and 19th century. (a) Innovations and technological change. (b) Patterns of growth. (c) Emergence of a working class. Debate: Was there an Industrial Revolution?</p> <p>11. Paths to Modernization Focus on East Asia. Late 19th and 20th century. (a) Militarization and economic growth in Japan. (b) China and the Communist alternative. Debate on the meaning of Modernization.</p>	<ul style="list-style-type: none"> • Sensitize students to the processes of displacements that accompanied the development of America and Australia. • Understand the implications of such processes for the displaced populations. • Understand the nature of growth in the period and its limits. • Initiate students to the debate on the idea of industrial revolution. • Make students aware that transformation in the modern world takes many different forms. • Show how notions like, ‘modernization’ need to be critically assessed.
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Recommended Textbook: A Textbook of History Class XI
Published by - Sunflower Publications (P) Ltd., 542/16 Joshi Road,
Karol Bagh, New Delhi – 110005.

PHILOSOPHY
CLASS – XI

DISTRIBUTION OF MARKS

Full Marks- 100

UNIT 1: (Marks: 15) (No. of Lectures: 20)
LOGIC – Definition, Scope of Logic, Logic as Science or Arts, Word – Meaning, Kinds, **TERMS** – Meaning, Division of Terms, **DENOTATION AND CONNOTATION** of Terms, **LOGICAL CHARACTER** of Terms, **FORMAL TRUTH** and **MATERIAL TRUTH**.

UNIT 2: (Marks: 20) (No. of Lectures: 25)
PROPOSITION – Meaning, Division of Proposition, Distinction between Grammatical Sentence and Logical Proposition, **SIMPLIFICATION** of Proposition, **DISTRIBUTION** of term, **REDUCTION** of Sentences into their Strict Logical form of Propositions, **OPPOSITION** of Proposition – Meaning and Kind.

UNIT 3: (Marks: 25) (No. of Lectures: 40)
INFERENCE – Meaning, Kinds – **IMMEDIATE INFERENCE** – Conversion, Obversion, Inversion and Contraposition. **SYLLOGISM** – Meaning, Characteristics, Structure, Kinds, **GENERAL RULES** of Syllogism and its Fallacies, **FIGURE** of Syllogism, **MOODS** of Syllogism, **SPECIAL RULES** of Valid Moods of First, Second, Third and Fourth Figures, **REDUCTION** – Direct and Indirect.

UNIT 4: (Marks: 20) (No. of Lectures: 25)
SYMBOLIC LOGIC – Meaning, Simple and Compound Statement, Conjunction, Disjunction, Material Equivalence and Negation, Using of Symbols and Simple Symbolization.

UNIT 5: (Marks: 20) (No. of Lectures: 25)
PHILOSOPHY – Meaning, of Philosophy with Reference to Western Philosophy, Scope of Philosophy, Branches of Philosophy, Relation of Philosophy to Logic.

REFERENCE BOOKS:

- | | |
|--------------------------------|---------------|
| 1. Textbook of Deductive Logic | : B. N. Roy |
| 2. Symbolic Logic | : I. M. Copi |
| 3. A Manual of Ethics | : J. N. Sinha |

- | | |
|---------------------------------|-------------------|
| 4. Gandhi His Life and Thoughts | : J. B. Kripalini |
| 5. Introduction To Philosophy | : John Patrick |

GEOGRAPHY
CLASS – XI

One Paper

Time: 3 hours

Theory – 70 marks
Practicals – 30 marks

DISTRIBUTION OF MARKS

A. Fundamental of Physical Geography

Unit I	Geography as a Discipline	-	3 marks
Unit II	The Earth	-	6 marks
Unit III	Landforms	-	6 marks
Unit IV	Climate	-	10 marks
Unit V	Water (Oceans)	-	4 marks
Unit VI	Life On Earth	-	6 marks

B. India - Physical Environment

Unit I	Introduction	-	4 marks
Unit II	Physiography	-	10 marks
Unit III	Climate, Vegetation and Soil	-	14 marks
Unit IV	Natural Hazards and Disaster; Causes, Consequences and Management	-	7 marks

Total = 70 marks

A. FUNDAMENTALS OF PHYSICAL GEOGRAPHY (35 MARKS)

Unit I: Geography as a Discipline (3 marks) (6 Periods)

- Geography as an integrating Subject, as a science of spatial attributes.
- Branches of Geography: Importance of Physical Geography.

Unit II: The Earth (6 marks) (13 Periods)

- Origin and Evolution of the Earth; Interior of the Earth; Wagener's Continental Drift Theory and Plate Tectonics; Earthquakes and volcanoes.

Unit III: Landforms (6 marks) (13 Periods)

- Rocks and minerals – Major types of rocks and their basics characteristics
Geomorphic processes – Weathering, Mass wasting, Erosional and Depositional work of running water and wind.

Unit IV: Climate (10 marks) (20 Periods)

- Atmosphere – Composition and structure; elements of weather and climate.
- Insolation – Angle of incidence and distribution; Heating and cooling of the atmosphere (conduction, convection, terrestrial radiation and advection); temperature – horizontal and vertical.

- Pressure-Pressure belts; wind planetary, seasonal and local; tropical and extra tropical (temperature) cyclones.
- Precipitation – evaporation, condensation – rainfall types
- World Climate – greenhouse effect, global warming and climatic changes

Unit V: Water (Oceans) (4 marks) (10 Periods)

- Hydrological Cycle
- Oceans – Submarines relief, distribution of temperature and salinity.

Unit VI: Life on Earth (6 marks) (13 Periods)

- Biosphere – Importance of plants and other organisms; ecosystems, energy flow; biodiversity and conservation; ecological balance.

B. INDIA – PHYSICAL ENVIRONMENT (35 MARKS)

Unit I: Introduction (4 marks) (5 Periods)

- Location – space relation and India's place in the world

Unit II: Physiography (10 marks) (20 Periods)

- Brief geological history of India
- Physiographic Divisions
- Drainage systems: concept of water sheds: the Himalayan and the Peninsular

Unit III: Climate, Vegetation and Soil (14 marks) (25 Periods)

- Weather and Climate – spatial and temporal; distribution of temperature; pressure; winds and rainfall; Indian monsoons – mechanism, onset and variability; Climatic types (Koeppen's)
- Natural vegetation (ICAR's classification) and their distribution; soil degradation and conservation.

Unit IV: Natural Hazards and Disasters: Causes, Consequences and Management (7 marks) (10 Periods)

- Floods and Droughts
- Earthquakes, Tsunami
- Cyclones
- Landslides

PRACTICAL SYLLABUS

FULL MARKS: 30

PASS MARKS: 9

Unit I: Fundamental of Maps (8 marks) (10 periods)

- Scales – types; construction of linear scales, measuring distance, finding direction and use of symbols.

- Contours and cross profiles of gentle slope and steep slope, convex and concave slope, conical hill, v – shaped valley.
- Representation of Data – construction of diagrams: bars, circles and flow charts.

Unit II: Topographic and Weather Maps (8 marks) (8 periods)

- Study of Topographic maps under the heads – relief, drainage, natural vegetation, distribution of settlement, contour and cross profile of the landform in the specific map provided to the students.
- Use of weather charts: describing pressure, wind and rainfall distribution

Unit III: Aerial Photographs and Satellite images (6 marks) (7 periods)

- Aerial photographs: types and geometry – vertical aerial photographs, difference between maps and aerial photographs; photo scale determination
- Satellite images: stages in remote sensing data acquisition, platform & sensors and data products (photographic and digital)

- Practical Record Book (5 marks)
- Viva Voce (3 marks)

Textbook Recommended:

Published by -

Geography for Class XI

Sunflower Publications (P) Ltd., 542/16 Joshi Road,
Karol Bagh, New Delhi - 110005.

PRACTICAL

Book Recommended:

Published by -

Practical Work in Geography

Sunflower Publications (P) Ltd., 542/16 Joshi Road,
Karol Bagh, New Delhi - 110005.

EDUCATION
CLASS – XI

DISTRIBUTION OF MARKS

Section – I: Education	=	60 marks
Section – II: Psychology of Education	=	40 marks

Total = 100 marks

SECTION I – EDUCATION (52 Periods)

Introduction (18 Periods)

- 1. Education – Broad & Narrow Meaning**
 - Definitions on Education
 - Aims of Education
 - Individual aims
 - Social aims
 - Aims for National Development

- 2. Agencies of Education**
 - Formal
 - Informal
 - Non-formal

- 3. Levels of Education (10 Periods)**
 - a. Educational ladder — Elementary, Secondary, Higher Education (Basic concepts, meaning and objectives)

- 4. Constitutional Provisions Relating to Education (10 Periods)**
 - a. Free and Compulsory Education
 - b. Religious Instruction
 - c. Language Safe Guards
 - d. Equality of Educational Opportunities
 - e. Education of Minorities
 - f. Education of Weaker Sections & Scheduled Castes
 - g. Instruction in Mother Tongue
 - h. Development of Hindi
 - i. Higher Education & Research

- 5. Sociology and Education (14 Periods)**
 - a. Meaning and definition of Educational Sociology
 - b. Relationship between Sociology and Education
 - c. Sociological bases of Education
 - d. Importance of Educational Sociology

SECTION II – PSYCHOLOGY OF EDUCATION (46 Periods)

6. Introduction (14 Periods)

- a. What is Psychology?
- b. Branches of Psychology
- c. Relationship between Psychology and Education
- d. Nature and Scope of Educational Psychology

7. Growth and Development (16 Periods)

- a. Meaning of Growth and Development
- b. Factors influencing growth and development

8. Developmental stages – Infancy, Childhood and Adolescence

9. Learning and Motivation (16 Periods)

- a. Concept of Learning
- b. Theories and Laws of Learning. Trial & Error Theory (Thorndike), Gestalt (Insightful learning), Conditioning (Pavlov's)
- c. Factors facilitating Classroom learning
- d. Motivation in Learning
 - What is motivation?
 - Role of Motivation in learning – classroom incentives, competition, co-operation and interest.

Reference Books: Class XI

1. Aggarwal, J. C.: Theory and Principles of Education – Vani Educational Books, Vikas Publishing House Pvt. Ltd.
2. Bhatia and Bhatia: A Text Book of Education for Beginners – Kalyani Publishers, New Delhi.
3. Bhatia, Hans Raj: Elements of Educational Psychology – Orient Longman.
4. Chaube: Educational Psychology – Vinod Pustak Mandir, Agra – 2.
5. Kaushik, Vijaya Kumari: Education Theory & Practice; 1997.
6. Kaushik, Vijaya Kumari: Principles of Education; 1997.
7. Kundu, C. L.: Sterling Publishers Pvt. Ltd.
8. Mangal, S. K.: Psychological Foundations of Education – Prentice Hall of India, New Delhi.
9. Rai, B. C.: Sociological Foundations of Education – Prakashan Kendra, Lucknow.

10. Safaya, R. N.: Development of Educational Theory and Practice – Bani Mandir, Pan Bazar, Guwahati.
11. Sahu, Binod Kumar: Education of the Exceptional Children – Kalyani Publishers, New Delhi.
12. Saxena, N. R. Swaroop: Philosophical and Sociological Foundations of Education – R. Lall Book Depot Meerut.
13. Skinner, B. F.: Educational Psychology.
14. Taneja, V. R.: Educational Thought and Practice – Sterling Publishers Pvt. Ltd.

Recommended Textbook: Intermediate Education Class XI
Published by - Pearson Education,
Dorling Kindersley (P) Ltd.,
482 FIE Patparganj, Delhi – 110092.

HOME SCIENCE
CLASS – XI

COURSE STRUCTURE
(THEORY)

ONE PAPER

TIME : 3 HOURS

70 MARKS

UNIT	TITLE	MARKS
I	Chemistry	20
II	Human Development	25
III	Family Resource Management	25
Total =		70

UNIT I – CHEMISTRY

- **Basic concepts of Chemistry:** Atom, Molecule, Symbol, Valency.
- **Structure of Atom:** Rutherford's model, Bohr's Model.
- **Concept of Energy levels (orbitals):** Concept of shells, subshells, and orbitals.
- **Quantum Theory, electronic configuration of elements.**
- **Chemicals Bonding:** Kossel – Lewis approach to bonding – ionic bonding, covalent bonding, Resonance structures, Electronegativity, Hybridisation (quantitative treatment of sp , sp^2 , sp^3)
- **Hydrogen ion concentration, Law of Mass action, Dissociation of water pH scale.**
- **Organic Chemistry:** Tetravalency of carbon, structure of carbon atom. Hydrocarbons – elementary idea of alkanes, alkenes, alkynes, their general formulae. Functional groups and Homologous series.
- **Biomolecular Chemistry:** Carbohydrates – classification, structures of pentoses and hexoses. Amino acids – Structures, peptide bond. Proteins – Simple idea of primary, secondary, tertiary and quaternary structures. Fatty acids: Saturated and unsaturated fatty acids.

UNIT II – HUMAN DEVELOPMENT

Meaning and Principles of Growth and Development.

- **Infancy (0 – 1 years):** Meaning and development Tasks of infancy. Physical care: Feeding: (breast feeding, artificial feeding, supplementary feeding and weaning) Bathing, Toilet training and clothing. Emotional Development: (fear, anger, joy, pleasure, tempers tantrums). Physical and Motor development. Immunisation.
- **Early childhood (1 – 4 yrs)** Meaning and development tasks of early childhood. Emotional development: (fear, anxiety, anger, jealousy, joy, pleasure, delight). Physical development. Language development. Social development. Intellectual development. Personality and Moral development. Common ailments: (fever, common cold, allergy, diarrhoea, whooping cough, worm infestation).
- **Late Childhood (4 – 12 years)** Meaning and development tasks of Late childhood. Emotional development (fear, anxiety, anger, curiosity, joy, pleasure). Physical development. Social development. Intellectual development. Development of creativity Personality and Moral development.
- **Adolescence (12 – 18 years)** Meaning and tasks of adolescence. Physical development. Emotional development: (Grief, affection, love, anger). Social development. Personality development. Moral development.

UNIT III – FAMILY RESOURCE MANAGEMENT

- **My house and Its Care:** Meaning and characteristics of a house. Planning and layout of a house. Importance of cleaning. Care of the house (daily, weekly, monthly, seasonal cleaning) Cleaning equipments. Household pests and their prevention. Principles and types of flower arrangement
- **Resources and their Management** Meaning, characteristics and classification of resources. Family resources and their management. Budgeting, Meaning and need for management. Steps in Management (planning, organizing, controlling, implementing and evaluating)
- **Household Equipments:** Care, maintenance and use of household equipments: Gas stove, kerosene stove, immersion rod, pressure cooker, heaters, cutting devices (peelers, cutters and graters)

PRACTICALS SYLLABUS**FULL MARKS: 30****PASS MARKS: 9**

Evaluation Scheme for Examination		Marks
1.	Chemistry	7
2.	Human Development	8
3.	Family Resource Management	8
4.	Practical Journal	5
5.	Viva Voce	2
Total -		30

1. **CHEMISTRY :- Determination of pH using pH meter of**
 - a. Water
 - b. Given Solution

2. **HUMAN DEVELOPMENT :-**
 - a. Prepare a feeding schedule for an infant of 8 months old.
 - b. Interview two working mothers in your neighbourhood to find out their arrangements for children in their absence for the children below 4 years and evaluate.

3. **FAMILY RESOURCE MANAGEMENT :-**
 - a. Plan a monthly budget with your pocket money.
 - b. Cleaning of Gas Stove and Pressure Cooker.

Reference Books :

1. Chemistry Textbook for Class XI and Class XII – **MBOSE**
2. A Textbook of Practical Biochemistry, 3rd Edition, by T. Plummer – **Orient Longman Pvt. Ltd.**
3. Elements of Home Science (1997) by Mullick Premlata – **Kalyani Publishers, 4863/2B, Bharat Ram Road, 24, Daryaganj, New Delhi – 110002.**

4. Elements of Child Development (1997) by K. C. Panda – **Kalyani Publishers, 1/1 Rajendra Nager, Ludhiana – 141008.**
5. Child Psychology (1984) by E. B. Hurlock – **McGraw Hill (P) Ltd.**
6. Developmental Psychology: A Life Span Approach (1985) by E. B. Hurlock – **McGraw Hill (P) Ltd.**
7. Home Management for Indian Families (1985) by M. K. Mann – **Orient Longman (P) Ltd.**
8. Home Management, Educational Planning Group (1993) – **Arya Publishing House, New Delhi.**
9. Management of Modern Families (1980) by Gross, Granall and Kholi – **Prentice Hall Inc., New Delhi.**

GEOLOGY
CLASS – XI

DISTRIBUTION OF MARKS

Theory – 70 Marks
Practical – 30 Marks

COURSE STRUCTURE
(THEORY)

One Paper

3 Hours

Unit	Title	Marks allotted	Estimated no. of periods
Unit I	<i>General Geology</i>	15	23
Unit II	<i>Crystallography and Mineralogy</i>	13	17
Unit III	<i>Structural Geology & Tectonics</i>	14	23
Unit IV	<i>Igneous Petrology</i>	15	23
Unit V	<i>Metamorphic Petrology</i>	13	15
	Total	70	101

Unit I: General Geology

(23 Periods/15 Marks)

Geology: different branches and scope.

Recent thoughts on the origin of the Earth/Solar system.

Geological Time Scale; Principle of Order of Superposition; Principle of Original Horizontality, Principle of Uniformitarianism.

Weathering: definition, agents and processes; erosion, denudation and deposition.

Geological work of running water and resulting erosional and depositional features.

Earthquakes – causes, classification, seismic waves, seismograph, seismogram; Earthquake intensity and magnitude. Earthquake belts of the World. Earthquake zones of India.

Interpretation of the Earth's interior with the help of seismic waves.

Volcanoes: Types and products of volcanoes.

Unit II: Crystallography and Mineralogy**(17 Periods/13 Marks)**

Crystal: its definition, external form, symmetry elements, axial elements and classification into 6 systems.

Study of the Normal class of the following systems: Isometric, Tetragonal and Hexagonal.

Minerals: definition, physical properties and chemical composition.

Elementary knowledge of optical mineralogy: Definition – polarization of light, Nicol Prism, double refraction, pleochroism, refractive index, birefringence, isotropism and anisotropism, extinction, interference color, twinning.

Unit III: Structural Geology and Geotectonic**(23 Periods/14 Marks)**

Rock deformation: definition, types-elastic, plastic, brittle deformation; rigid and non-rigid body deformation;

Basic structural elements: line and plane (linear and planar structures) and their measurement – trend, plunge, rake/pitch, strike, dip.

Folds: definition, elements of folds – limbs, hinge, fold axis, axial surface, inflection point, median surface. Types of folds – antiform, synform, syncline, anticline, open folds, tight folds, isoclinal folds, recumbent folds, plunging and non plunging folds, symmetrical folds, asymmetrical folds, overturned folds, concentric folds, similar folds.

Faults: definition, fault zone and shear zone; elements of a fault – fault plane, hanging wall, footwall, fault angle, hade, heave, throw, slip. Types of faults – Dip Slip faults (Normal Slip fault, Reverse Slip fault, and Thrust Slip fault), Strike Slip fault, Oblique Slip fault.

Joints: definition; joint set, joint system; master joints, systematic and non – systematic joints; extensional joints and shear joints.

Concept of Plate Tectonics: lithosphere, asthenosphere, plates, plate motion and plate boundaries.

Unit IV: Igneous Petrology**(23Periods/15 Marks)**

Magma: definition and composition; crystallization of magma – unicomponent and binary system.

Bowen's Reaction Series.

Magmatic differentiation and assimilation.

Igneous Rocks: Mode of occurrence – intrusive and extrusive rocks. Forms, structures and textures of igneous rocks.

Simple classification of igneous rocks based on mineral constituents.

Unit V: Metamorphic Petrology**(15Periods/13 Marks)**

Metamorphism: definition and concept.

Factors and types of metamorphism; Riecke's principle.

Preliminary idea of metamorphic grades and metamorphic facies.

Structures and textures of metamorphic rocks.

Books Recommended:

1. A Textbook of Geology – P. K. Mukerjee (World Press, 1997)
2. Introduction to Geology, Volume I: Principles – H. H. Read and J. Watson (ELBS,1988)
3. Physical Geology – R. F. Flint and B. J. Skinner (John Wiley, 1974)
4. Understanding Earth – F. Press and R. Siever (W. H. Freeman and Co. New York, 2nd Edition, 2001)
5. Physical Geology – D. Leet and S. Judson (Prentice Hall, 1974)
6. The Changing Earth – J. S. Monroe and R. Wiecarder (Brooks/Cole, 3rd Edition, 2001)
7. Geology – W. C. Putnam (OUP, 1971)
8. Rutley's Element of Mineralogy – H. H. Read (CBS, 1984)
9. Textbook of Mineralogy – E. S. Dana and W. Ford (John Wiley,1986)
10. Structural Geology – M. P. Billings (Prentice Hall, 1986)
11. Structure of Rocks and Regions – G. H. Davis (John Wiley,1984)
12. Principles of Petrology – G. W. Tyrrell (B. I. Publications Pvt. Ltd,1998)
13. Petrology – E. G. Ehlers and H. Blatt (CBS, 1986)
14. Igneous and Metamorphic Petrology – M. G. Best (CBS, 1986)

PRACTICALS: 30 Marks**45 periods****3 (Three) Hours**

Study of crystals belonging to the Isometric, Tetragonal and Hexagonal systems: clinographic sketch; identification of crystals and determination of general symbol (Miller indices). 1+2=3

Identification of the following minerals in hand specimens on the basis of physical characters and chemical composition:

Quartz, orthoclase, plagioclase, calcite, augite, hornblende, olivine, garnet, tourmaline, muscovite, biotite, sillimanite, kyanite, gypsum. 1½ x 4 = 6

Identification of the following minerals on the basis of optical characters under the microscope with drawings: quartz, orthoclase, microcline, plagioclase, augite, hornblende, biotite, olivine. 4

Identification of the following igneous and metamorphic rocks in hand specimens on the basis of their physical characters, mineralogy, texture and structure:

Granite, diorite, pegmatite, rhyolite, gabbro, dolerite, basalt, slate, schist, gneiss, marble, phyllite. $1\frac{1}{2} \times 4 = 6$

Measurement of orientation of lines and planes with the help of the clinometer compass and protractor. 2

Description of geological maps and drawing of cross sections. 5

Field work of 4 (Four) days duration as per the requirement of the syllabus and Viva voce $3 + 1 = 4$

Books Recommended:

1. Laboratory Manual of Geology – A. K. Sen (Modern Book Agency, Calcutta, 1995)
2. Manual of Geological Maps – N. Gokhale (CBS, 1987)
3. Field Geology – F. H. Lahee (McGraw Hill)
4. Field Geology – R. Compton (McGraw Hill, 1987)

ANTHROPOLOGY
CLASS – XI

DISTRIBUTION OF MARKS

Theory – 70 Marks
Practical – 30 Marks
Total – 100 Marks

PART I = THEORY
(Total 48 Lectures)

1. **Anthropology: The Study of Human** **(12 Periods)**
 - i. Meaning, aim and scope
 - ii. Core branches
 - iii. Relationships to other Science: Sociology, History, Biology, Geology and Geography.

2. **Man's Place In The Animal Kingdom** **(12 Periods)**
 - i. Classification of the order of primate.
 - ii. Characteristic of primate order – great apes and man.
 - iii. Evolutionary Changes in Primate (upright posture and bipedalism)

3. **Human Evolution** **(12 Periods)**
 - i. Evidences of Evolution (Embryological, Morphological and Palaeontological).
 - ii. Principles of Evolution (Natural-Selection, Mutation, Genetic Drift & Migration).
 - iii. Stages of evolution (Prosimii to Hominoid, Hominoid to hominid)

4. **Theories of Evolution** **(12 Periods)**
 - i. Theory of Lamark (Lamarkism.)
 - ii. Theory of Darwin (Darwinism).
 - iii. Mutation Theory (Hugo De Vries).

PART II =THEORY
(Total 72 Lectures)

1. **Culture and society:** **(12 Periods)**
 - i. Culture and its characteristics, Ethnocentrism, Cultural-Relativism and Xenophobia.
 - ii. The concept of Society and Socialization.
 - iii. Relation between Society and Culture.

2. **Social Institutions:** (12 Periods)
 - i. Family – function and types.
 - ii. Marriage – types, regulations of marriage, marriage payment.
 - iii. Kinship – Descent and residence, Kinship Terminology (Morgan).

3. **Social Groups:** (12 Periods)
 - i. Primary and Secondary groups.
 - ii. Kin-groups (Lineage, Clan, Phantry and Moiety)
 - iii. Fission and Segmentation of social groups.

4. **Religious Aspect of Culture:** (12 Periods)
 - i. Religion – definition, function and types. (Animism, Animatism, Manaism and Naturism).
 - ii. Magic – definition, function and types (Frazer's)
 - iii. Relationship between Magic and Religion.

5. **Economic Aspect of Culture:** (12 Periods)
 - i. Foraging, Hunting and Fishing.
 - ii. Domestication of animals and plants (food production).
 - iii. System of Exchange: Reciprocity, Redistribution and Market

6. **Fieldwork in Anthropology:** (12 Periods)
 - i. Development and significance of fieldwork.
 - ii. Stages of fieldwork
 - iii. Data collection – Interview, observation and genealogy.

PART – III = PRACTICAL
(Total 30 Classes)

1. **Somatometry:** (15 Classes)

Measurements of the following somatometric indices should be taken from at least five subjects:

- i. Cephalic-Index: Head-length, breadth and circumference;
- ii. Nasal & Facial Index - Nasal length and breadth, Facial height and Bizogamatic breadth.
- iii. Height vertex and sitting height.

2. **Somatoscopy:** (15 Classes)

Observation and classification of the following samatoscopic characteristics should be taken from at least five subjects:

- i. Skin colour, Hair-colour, hair-form and texture.
- ii. Eye-colour, slit and epicanthic fold.
- iii. Nose form, Chin form and Lips form.

Reference Books:

1. Bhattacharya D. K. 1997 (1st published 1973) *Prehistoric Archaeology (A Comparative Study of Human Succession)* Delhi, Hindustan Publishing Corporation (India).
2. Basu Roy, Indrani 2003, *Anthropology: The Study of Man* New Delhi, S. Chand & Co. Ltd.
3. Das, B. M. *Outlines of Physical Anthropology*, Allahabad 1997 (1st published 1961, Kitab Mahal).
4. Das, B. M. & Deka, R. 1992, *Practical in Physical Anthropology*, Allahabad, Kitab Mahal.
5. Doshi S. L. and Jain, P. C. 2001, *Social Anthropology*, New Delhi, Rawat Publications.
6. Hasnain Nadeem, 1992, *General Anthropology*, New Delhi, Jawahar Publishers and Distributors.
7. Mair Lucy, 1984 (1st published 1965) *An Introduction to Social Anthropology*, New Delhi, Oxford University Press.
8. Jha Makhan, 1994, *An Introduction to Social Anthropology* Vikas Publishing House Pvt. Ltd., Sarkar, R. M. 1994, *Fundamentals of Physical Anthropology*, Calcutta, Book World Publishers.
9. Scupin, Raymond and Decorse, Christopher R. 2005, *Anthropology: A Global Perspective*, New Delhi, Prentice Hall of India.
10. Srivastava, A. R. N. 2005, *Essentials of Cultural Anthropology*, New Delhi, Prentice Hall of India.

STATISTICS
CLASS – XI

100 marks
3 (three) hours

GROUP – A

1. **Algebra:** Permutation and combination (Theorems with proofs and simple examples): Binomial theorem for a positive integral index (without proof): simple examples on Binomial co-efficients, logarithms. Exponential and logarithmic series with simple examples (without proof).
2. **Finite Differences:** Δ and E operators, construction of difference table. Newton's forward and backward interpolation formulae, Lagrange's formula (Numerical application of Lagrange's formula not required).

GROUP – B

Probability:

Random experiments, sample point and sample space (finite, simple and compound events, relation among events. Basic assumptions and definition of probability. Theorem on total probability (two events only). Definition of conditional probability, compound probability (Elementary problems only).

GROUP – C

1. **Descriptive Statistics:** Definition, scope and limitations of Statistics; collection of data; classification and tabulation; diagrammatic representation of statistical data. Frequency distributions; Histograms, Frequency Polygon and Ogive. Measures of location and dispersion.
2. **Vital Statistics:** Sources of vital statistics. Death rates and mortality rates.

ELECTIVE ENGLISH
CLASS – XI

DISTRIBUTION OF MARKS

1)	Short Stories	-	45
2)	Short Modern Plays	-	40
3)	Writing	-	15

Total marks = **100**

I. Short Stories 45 Marks

The Prescribed Pieces are:

1. The Gift of the Magi – *by O. Henry*
2. The Gold Watch – *by Mulk Raj Anand*
3. The Night the Ghost Got in – *by James Thurber*
4. Dr. Heidegger’s Experiment – *by Nathaniel Hawthorne*

Name of the textbook: **Short Stories of Yesterday And Today**
 Edited by Shiv K. Kumar
 Published by - Oxford University Press, Danish Road,
 Pan Bazar, Guwahati – 781001.

II. Short Plays 40 Marks

The Prescribed Plays are:

1. The Carrier Pigeon – *by Eden Phillpotts*
2. The Three Wayfarers – *by Thomas Hardy*
3. The Conspiracy – *by Robert Barr and Sydney Ransom*
4. Comedy and Tragedy – *by W. S. Gilbert*

Name of the textbook: **Short Modern Plays – Second Series**
Selected by – S. R. Littlewood.
 Published by - Macmillan India Ltd., S. C. Goswami Road,
 Pan Bazar, Guwahati – 781001.

III. Writing (Unseen) 15 Marks

- a) To write an essay on an argumentative/discursive/descriptive topic (200-250 words)
- **08 marks**
- b) To write a shorter composition such as an article/report (100-125 words)
- **07 marks**

ASSAMESE (ELECTIVE)
CLASS – XI

DISTRIBUTION OF MARKS

1)	Prose	-	30
2)	Poetry	-	30
3)	Novel	-	15
4)	Rhetoric and Prosody	-	15
5)	Essay	-	10

Total marks - 100

A. Prose

Pieces To Be Read:

1. Sahityar Mulkatha – *by S. K. Bhuyan*
2. Adhunik Galpa Sahitya – *by H. Baruah*

Name of the Textbook: Prabandhawali
Guwahati University, Guwahati – 781001.

B. Poetry

Pieces To Be Read:

1. Bhiksha Bahagir Biya Keteki
2. Charai; Golpo; Basisthasram; Sankardev; Gowa be Eber Mar Priya
3. Bihangini (7 poems)

Name of the Textbook: Sadari – by Raghunath Chaudhary

C. Novel: Bhanumati – by Padmanath Gohain Borah

D. Rhetoric and Prosody and Unseen

E. Essay:

For Rhetoric and Prosody:

(Students are expected to have some general idea of the topics along with definitions and examples)

1. Alankara – Sabdalam Kara and Arthalam Kara Anuprasa, Upama; Rupaka; Tamaka
2. Chanda – Yati; Parba Carama; Stavaka; Mitakshara and Mitalshara Pada; Chavi; Dulari; Lechari

Book Recommended: Sahitya Say – by Senapati Dev Sharmah

Book Recommended as Reference: Sahitya Vidya Parikrama: Tirtha Nath Sarmah

BENGALI (ELECTIVE)
CLASS – XI

DISTRIBUTION OF MARKS

1)	Novel	-	20
2)	Poetry	-	15
3)	Short Stories	-	15
4.	Grammar & Composition		
	a) Metre (Chanda)	-	10
	b) Rhetoric (Alankar)	-	10
	c) Essay	-	15
	d) Unseen	-	15

Total marks = 100

I. Novel

Name of the Novel: Datta – by Sarat Chandra Chatterjee

II. Poetry

The Prescribed Poems are:

1. Bangla Bhasha
2. Kashiramdas
3. Yaser Mandir
4. Aswin Mas
5. Sita Devi
6. Kapolaksanad
7. Bijoya Dasami
8. Samapta

Name of the textbook: Chaturdaspadi Kabitabali – by M. S. Dutta

III. Short Stories

The Prescribed Pieces are:

1. Ichchapuran
2. Anadhikar Prabes
3. Sadar O Andar
4. Megh O Roudra

Name of the textbook: Galpaguccha (Short Story) – by Rabindranath Tagore

Note: Any standard Publication of the Prescribed Books may be followed.

GARO (ELECTIVE)
CLASS – XI

DISTRIBUTION OF MARKS

1.	Prose	-	45 marks
2.	Poetry	-	35 marks
3.	Grammar	-	20 marks

Total = 100 marks

I. Prose

Recommended Textbook: Maniani Bidik – by Mihir N. Sangma
Tura Book Room, Tura.

The prescribed pieces are:

“Gamma Ge·ani Bidingo A·chikrangni Manianirang”

- a) A·a o·pata ba jumang sia
- b) Rama krita ba a·a bakchata ba den·bilsia ba wa·cheng balrroa
- c) A·galmaka ba a·galmak doa
- d) A·krita ba me·jak sim·a
- e) Rongchu gala ba wanna stita guri janggia
- f) Me·gap ra·ona ba ja·pang ra·a ba ja·megapa
- g) Wangala ba wanna rongchua ba dru wanbola

II. Poetry

Recommended Textbook: Chasong Gital A·chik Poedorang
Compiled and Edited – by Keneth M. Momin,
Published by – Tura Book Room, Tura

The prescribed pieces are:

- | | | | |
|----|--------------------|---|--------------------|
| a) | Pring | - | S. S. Marak |
| b) | Nokgipani Pattia | - | Phoebe W. Momin |
| c) | Ka·saa | - | Keneth Momin |
| d) | Rasongni Kimbriona | - | Rev. Gilbert Marak |
| e) | A·chik A·song | - | Perkins K. Sangma |

III. Grammar

Pieces To Be Read: Bak I and II

Recommended Textbook: A·chik Grammar – by E. G. Phillips
Published by – Tura Book Room, Tura

HINDI (ELECTIVE)
CLASS – XI

DISTRIBUTION OF MARKS

1)	Nibandh	-	35
2)	Natak	-	35
3)	Upanyas	-	30
Total =			100

1. Nibandh

Prescribed Pieces

1. Ruchi – Balakrishna Bhatt
2. Utsaha – Acharya Ramachandra Shukla
3. Dakshin Ganga Godavari – Kaka Kalelkar
4. Gehun Banam Gulab – Ramvriksha Banipuri
5. Ninda Rasa – Harishankar Parasai

Book Prescribed: **Parijat – Harbans Lal Sharma and Brijbhusan Sharma,**
NCERT, New Delhi

2. Natak

Book Prescribed: **Ashadh Ka Ek Din – Mohan Rakesh**
- Published by Rajpal and Sons, Delhi

Book for reference: **Mohan Rakesh Aur Unke Natak – Dr.Girish Rastogi**
- Published by Lok Bharati Prakashan, Allahabad.

3. Upanyas

Book Prescribed: **Nirmala – Premchand**
- Published by Saraswati Prakashan, Allahabad

Book for Reference: **Premchand Ke Upanyasa Ka Silp Vidhan**
– Dr. Kamal Kishore Goenka.

KHASI (ELECTIVE)
CLASS – XI

DISTRIBUTION OF MARKS

i)	Elementary Theory and Criticism	-	20
ii)	History of Khasi Literature	-	30
iii)	Poetry	-	30
iv)	Short Story	-	20

Total marks = 100

1. **Elementary Theory and Criticism:**
Textbook prescribed - Ki Snap Ka Bishar Bniah
 - by H. W. Sten, B. L. Swer and B. War
Pieces to be read – All

2. **History of Khasi Literature**
Textbook prescribed - Ka History Ka Thoh Ka Tar (Bynta I)
 - by R. S. Lyngdoh

Pieces To Be Read – All

3. **Poetry:**
Textbooks Prescribed -
 - a) **Ka Snap U Longshuwa** – by Pascal Malngiang

Pieces To Be Read - Chapter 17: Shong Ruh Jhieh
 Chapter 18: U Lok Bashisha

 - b) **Ka Marynthing Rupa** – by L. G. Shullai

Pieces To Be Read -
 - i. Pumpum Tdem Dewiong, Diesel & Bad Duma
 - ii. Talawiar U Sohpetbneng

4. **Short Story:**
Textbooks Prescribed - Shithiar Ki Khana Lyngkot – by Paul Lyngdoh
Pieces To Be Read -
 - i) Mab Bad Klet
 - ii) U Nongialam
 - iii) U Thlen

MIZO (ELECTIVE)
CLASS – XI

DISTRIBUTION OF MARKS

I.	Hla (Poetry)	-	25 marks
II.	Thu (Prose)	-	25 marks
III.	Thawnthu (Short Story)	-	25 marks
IV.	Lemchan (Plays)	-	25 marks

Total = 100 marks

I. Hla (Poetry)

Pieces To Be Read:

1.	Zo Hnam Hla	-	Thanga
2.	Damlai Tuipui Fawn	-	C. Z. Huala
3.	Awmkhawmna In Hlui	-	Hrawva
4.	Kawmu	-	Chhuana
5.	Pathian Ralthuam Hmangtute Chu	-	Saihnuna
6.	Fur	-	Lalthangfala Sailo
7.	German Run Zai		
8.	Abor Run Zai		
9.	Japan Ral Len Hla		
10.	Kumsul Liam Hnu	-	C. Lalkhawliana
11.	Tan Hla	-	R. L. Kamlala
12.	Lenna Khua Hmun Lo	-	Lalzova
13.	Mi Zawn Inchuh	-	James Dokhuma
14.	Ziak Loh Zirlai	-	Laltluangliana Khiangte
15.	Thlawhhma Hla	-	Romani

II. Thu (Prose)

Pieces To Be Read:

1.	Hmangaihna	-	Lalhmingliana Saiawi
2.	Mizo Thu Leh Hla Mawi	-	C. Chhuanvawra
3.	Hri Dai Theu	-	C. Vanlallawma
4.	Thalaite Intodelhna	-	P. C. Biaksiama
5.	Nghah	-	Darchhawna
6.	Mizo Thangval Rual Leh Japan Ral	-	Zokima
7.	Mizo Tawng Khawvel	-	C. Sangzuala
8.	Zin Kawng Thim	-	R. L. Thanmawia
9.	Fam Ta Lo Chu	-	James Dokhuma
10.	Mizo Thu Leh Hla Tobul	-	B. Lalthangliana

III. Thawnthu (Short Story)**Pieces To Be Read:**

- | | | | |
|----|-----------------|---|---------------|
| 1. | Eng nge Pawi? | - | Lalzuithanga |
| 2. | Leitlang Dingdi | - | C. Thuamluaia |

IV. Lemchan (Plays)**Pieces To Be Read:**

- | | | | |
|----|----------------------|---|------------------|
| 1. | Hausakna Nun Dik Tak | - | Chawngzika |
| 2. | Diktea Vahvaihna | - | C. Lalsiamthanga |

Textbook Prescribed:**Mizo – XI (Elective) – by MBSE**

- Printed by Milan Press,
Zodin Square, Aizawl – 796001.

NEPALI (ELECTIVE)
CLASS – XI

DISTRIBUTION OF MARKS

Literature	-	60 marks
Grammar	-	15 marks
Reading Unseen	-	10 marks
Composition & Writing	-	15 marks

Total = 100 marks

A. Poetry (20 marks)

Pieces To Be Read:	Writer
1. Pinjara Ko Suga	- Lekh Nath Paudel
2. Udbodhan	- Dharndhar Koirala
3. Jabiko Chara	- Uddha Prasad Mishra
4. Manish Chainan	- Siddhicharan Shrestha
5. Nirjhar	- Narendra Kumai
6. Bhikhari	- Laxmi Prasad Deokota

B. Prose (Story) (20 marks)

Pieces To Be Read:	Writer
1. Sahid	- Guru Prasad Mainali
2. Machha Ko Mol	- Shiv Kumar Rai
3. Tangan Ghoda	- Balkrishna Sam
4. Pavitra	- Biswessar Prasad Koirala

C. Prose (Essay) (20 marks)

Pieces To Be Read:	Writer
1. Bhani Bisauni Thego	- Dr. Jagat Chettri
2. Birsyeko Sanskriti	- M. M. Gurung
3. Hamro Rashtriya Chad Ra Sayapatri Phul	- Bishnu Ram Rai
4. Lok Sahityama Sawai Ko Sthan	- Shiv Kumar Rai

Textbook Prescribed:

1. **Uchha Madhyamik Nepali Sahitya**
by Textbook Committee (Nepali), Shillong – 2.

D. Grammar (15 marks)

Chapters: Paryayevachi Shabda, Viparitarthak Shabda, Anekarthak Shabda, Saar Shabda, Shabda Suddhi Prakriya

Essay Writing: Atmaparak, Vastuparak

Letter Writing: Vyaktigat, Daftari, Smarak Patra

Reading Unseen:**(10 marks)****(i) Composition and Writing****(15 marks)****Textbook Prescribed:**

1. **Madhyamik Nepali Vyakaran Ra Rachana**
by Shree Raj Prakashan, Darjeeling
2. **Ramro Rachana Mitho Nepali**
by Krishna Prasad Parajuli
- Sahayogi Press, Kathmandu
