



## West Bengal Council of Higher Secondary Education

Vidyasagar Bhavan

9/2, Block DJ, Sector-II, Salt Lake, Kolkata – 91

No : L/PR/ 454/24

Date : 13.12.2024

### Notification

#### Attention : All Concerned

Based on suggestions from various quarters, the Council has reviewed syllabus of several Subjects under H.S curriculum and given below are the Subject-wise [ *English B, English A, Alternative English, Bengali A, Hindi A, Hindi B, History, Political Science, Accountancy, Costing & Taxation, Business Studies, Education, Science of Well-being, Statistics, Philosophy, Environmental Studies, Economics, Geography, Biological Science* ] minor changes made in the review process.

### English B

#### Theory

#### Class XI : Semester 1

##### **Unit 1 : Prose**

[ **New Prose added** ]

Sl No	Topic	Marks	Hours
4	'The Model Millionaire' by Oscar Wilde	03	05

Schools will select **any three** prose topics from the four available options and guide the students accordingly. Students will be informed of the chosen texts by the School at the beginning of the semester.

##### **Unit 3 : Rapid Reader**

[ **Two New Texts added** ]

Sl No	Topic	Marks	Hours
4.	'The Story of an Hour' by Kate Chopin	04	07
5.	'The Open Window' by Saki	03	06

Schools will select **any three** Rapid Reader texts from the five available options and guide the students accordingly. Students will be informed of the chosen texts by the School at the beginning of the semester.

## Class XI : Semester 2

### Unit 1 : Prose

#### [ New Prose added ]

Sl No	Topic	Hours
5.	'The Fly' by Katherine Mansfield	05

Schools will select **any three** prose topics from the five available options and guide the students accordingly. Students will be informed of the chosen texts by the School at the beginning of the semester.

### Unit 3 : Rapid Reader

#### [ Two New Texts added ]

Sl No	Topic	Hours
4	'At School (1)' - Extract from Netaji's Life and Writings - Part - I - Autobiography of Subhas Chandra Bose, Chapter - 4	07
5.	'The Parrot's Tale' by Rabindranath Tagore	06

Schools will select **any three** Rapid Reader texts from the five available options and guide the students accordingly. Students will be informed of the chosen texts by the School at the beginning of the semester.

## Class XII : Semester 3

### Unit 1 : Prose

#### [ One Prose replaced ]

Sl No	Topic	Marks	Hours
3	'The Bet' by Anton Chekhov	03	07

- 'A Room for One's Own : Section on Shakespear's Sister' by Virginia Woolf will be replaced by the above-mentioned text.

### Unit 3 : Drama

#### [ One Drama replaced ]

Sl No	Topic	Marks	Hours
1	'Riders to the Sea' by J.M.Synge	05	20

- 'Tara ' by Mahesh Dattani will be replaced by the above-mentioned text.
- Students will go through the same drama in Sem 3 for MCQs and in Sem 4 for Descriptive Type Questions respectively..

### Class XII : Semester 4

#### **Unit 3 : Drama**

**[ One Drama replaced ]**

Sl No	Topic	Descriptive Type Questions	Marks	Total Hours
1	'Riders to the Sea' by J.M.Synge	01	05	10

- Any 01 question to be attempted out of 02 questions , (05 marks)
- Students will go through the same drama in Sem 3 for MCQs and in Sem 4 for Descriptive Type Questions respectively.

#### **Unit 5 : Writing**

**[ Precis Writing replaced ]**

Sl No	Topic	Marks	Total Hours
1	Essay Writing (150 words) Or Drafting email (75 words) & Blog Writing (75 words)	01X 10 = 10  OR 01X 5 +01X 5	30

#### **Word Limit for Text Oriented Questions :**

- For 02 marks questions students are expected to write answers within 20- 30 words in all the semesters.
- For 05 or 06 marks students are expected to write answers within 100-120 words in all the semesters.

**English A**  
**Theory**  
**CLASS XI : SEMESTER 2**

**UNIT 3**

[ **Textual Prosody replaced** ]

Sl No	Topic	Marks	Hours
1.	Non Textual Prosody	06	20

**UNIT 5**

[ **Reading Comprehension replaced** ]

Sl No	Topic	Marks	Hours
1.	Essay Writing or Precis Writing	10	15

**CLASS XII : SEMESTER 3**

**UNIT 1: Prose**

[ **“ Debut on Stage “ replaced** ]

Sl No	Topic	Marks	Hours
2.	‘ India through a Traveller’s Eyes’ by Pearl . S. Buck	03 marks	06

**CLASS XII : SEMESTER 4**

**UNIT 1: Prose**

[ **“ The Lamb of the Slaughter” replaced** ]

Sl No	Topic	Hours
2	‘ A Clean Well LightedPlace’ by Earnest Hemmingway	05

**UNIT 5: Writing Skill**

[ **Essay replaced** ]

Sl No	Topic	Marks	Hours
1	Substance Writing	06	07
2	Critical Appreciation	06	08

**Alternative English**  
**Theory**  
**CLASS XI : SEMESTER 1**

**UNIT 1: Prose**

[“ I became an Author” replaced by]

Sl No	Topic	Hours
2.	‘Freedom’ by G, B. Shaw	12

**CLASS XI : SEMESTER 2**

**UNIT 3 : Rapid Reader**

[ Text added as an alternative ]

Sl No	Topic	Hours
2.	‘The Machine Stops’ by E. M. Foster	25

Schools will select **any one** Rapid Reader text from the two available options and guide the students accordingly. Students will be informed of the chosen texts by the School at the beginning of the semester.

**UNIT 4 : Writing Skill**

[Essay Writing replaced ]

Sl No	Topic	Marks	Hours
2.	Email & Blog	05 + 05	12

**CLASS XII : SEMESTER 3**

**UNIT 1 : Prose**

[“ Three Questions” replaced ]

Sl No	Topic
2	‘The Monkey’s Paw by W. W. Jacobs

**UNIT 2 : Poetry**

[“ Lotus” replaced ]

Sl No	Topic
2.	‘The Tree of Life’ by Toru Dutt

BENGALI-A  
[REVISED PORTIONS ONLY]  
CLASS – XII, SEMESTER – 3  
FULL MARKS – 40

**ভাষা:** -প্রথম অধ্যায়ঃ ভাষাবিজ্ঞান ও তার শাখা-প্রশাখা

দ্বিতীয় অধ্যায়ঃ ধ্বনিতত্ত্ব

তৃতীয় অধ্যায়ঃ শব্দার্থতত্ত্ব

**বাংলা ভাষা ও সংস্কৃতিঃ -**

প্রথম অধ্যায়ঃ বাংলাগানের ইতিহাস - সংক্ষিপ্ত রূপরেখা

দ্বিতীয় অধ্যায়ঃ বাঙালির বিজ্ঞানচর্চার সংক্ষিপ্ত পরিচিতি

তৃতীয় অধ্যায়ঃ বাঙালির ক্রীড়া সংস্কৃতি সংক্ষিপ্ত পরিচিতি

**CLASS – XII, SEMESTER – 4**

**গল্পঃ -** রং নাম্বার - মহাপ্বেতা দেবী পরিবর্তন হয়ে হচ্ছে - হারুণ সালেমের মাসি -  
মহাপ্বেতা দেবী

**বাংলা ভাষা ও সংস্কৃতিঃ-**

চতুর্থ অধ্যায়ঃ বাংলা চিত্রকলার ইতিহাস - সংক্ষিপ্ত রূপরেখা

পঞ্চম অধ্যায়ঃ বাঙালির চলচ্চিত্রের ইতিহাস - সংক্ষিপ্ত রূপরেখা

☆ বাংলাভাষা ও সংস্কৃতি বইটির বিষয়বস্তুর আংশিক পরিবর্তন, সংযোজন এবং সংক্ষিপ্তকরণ করা হচ্ছে।

## Hindi A

### Theory

#### CLASS XII : SEMESTER 3

#### Unit II : alternative text deleted

Lehron Ke Rajhansh [ Part I ]- Mohan Rakesh

#### CLASS XII : SEMESTER 3

#### Unit II : alternative text deleted

Lehron Ke Rajhansh [ Part II & III]- Mohan Rakesh

## Hindi B

### Theory

#### CLASS XII : SEMESTER 3

#### Unit2 : alternative text deleted

Samudra mein Khoya Hua Aadmi [ Page 1-66 ]- Kamleshwar

#### CLASS XII : SEMESTER 3

#### Unit 2 : alternative text deleted

Samudra mein Khoya Hua Aadmi [ Page 67 to the end of text ]- Kamleshwar

## History

### Theory

#### CLASS XI : SEMESTER 1

#### Unit 3:

3.3(b)- Chola Administration - Deleted from Syllabus

#### CLASS XI : SEMESTER 2

#### Unit 5:

Bhakti, Sufi , Confucious , Tao , Shinto etc- Deleted from Syllabus

#### CLASS XI : Revised Project

### FULL MARKS : 20

1.	Slavery and its impact on the contemporary world.
2.	Map work : On a world map point out the places which were under the Roman Empire.
3.	On an outline map of India locate and name the sixteen <i>mahajanapadas</i> .
4.	Contributions of (any one) a. Kautilya b. Zia-ud-din Barani c. Thomas Cromwell
5.	Renaissance and its impact on the Human Life
6.	Printing Revolution and its impact on the spread of education

[Note: 40 Hours reserved for Project, Remedial classes, Tutorials and Home Assignments.]

**CLASS XII : Revised SEMESTER 3 Syllabus**

**FULL MARKS : 40**

**CONTACT HOURS : 90 HOURS**

**COURSE CODE : THEORY**

<b>UNIT No.</b>	<b>TOPICS</b>	<b>CONTACT HOURS</b>	<b>MARKS</b>
<b>Unit1:</b> 1) Through the eyes of the travelers.  2) Cultural amalgamation  3) Imperial capital	<b>1. Society and Polity of India (Between 10<sup>th</sup> and 17<sup>th</sup> Centuries) with reference to travelers' accounts with special reference on the following travelers :</b> (1) Al Biruni– Uzbekistan, (2) Marco Polo– Italy, (3) Ibn Battuta– Morocco, (4) Abdur Razzak– Iran, (5) Francois Bernier– France. Administrative Structure – Economic Life – Social and Religious Life – Literature, Art and Architecture. <b>2. Bhakti Movement and Sufi Movement:</b> The Bhakti Cult– Bhakti Saints: Kabir, Guru Nanak, Chaitanya Dev and Meerabai– Impact of Bhakti ideology– Origins of Sufism– Sufi Orders in India – Impact of Sufism. <b>3. Vijaynagara, Bahamani and Bengal:</b> Iliyas Shahi nad Hussain Shahi Dynasties – Origins – Administrative Structure – Society and Economy – Religion and Culture – Art and Architecture – Literature – The Bahamani Successor States.	40	20
<b>Unit2:</b> 1) Colonialism and Imperialism in the 19 <sup>th</sup> and 20 <sup>th</sup> Centuries  2) The levers of Colonial Control	<b>1. Brief overview of 17<sup>th</sup> and 18<sup>th</sup> Century Colonialisation in Asia and the New World:</b> <ul style="list-style-type: none"><li>▪ Brief overview of colonization in Asia and the New World.</li><li>▪ Economic Dynamics of Imperialism and Colonialism; from Mercantile Capital to Industrial &amp; Finance Capital.</li><li>▪ Political and Economic Domination and Subordination of the Colonies.</li><li>▪ Racism and Its Impact on Colonial Societies– Neo-imperialism.</li></ul> <b>2. The Levers of Colonial Control:</b> India- as a 'colonised' state – The instruments of control : Law/Legislature/Bureaucracy/Police/Army – The subordination of the colonial economy.	50	20

**CLASS XII : Revised SEMESTER 4 Syllabus**

**FULL MARKS : 40**

**CONTACT HOURS : 70 HOURS**

**COURSE CODE : THEORY**

<b>UNIT No.</b>	<b>TOPICS</b>	<b>CONTACT HOURS</b>	<b>MARKS</b>
<u>Unit 3:</u> 1) Rebels and Raj	1. <b>Revolt of 1857 and its representations :</b> Causes of the Revolt – Character – Causes of Failure – The impact of the Revolt	70	07
<u>Unit 4:</u> 1) Nationalism and Separatism	1. <b>Aligarh Movement, Birth of Muslim League, Hindu Mahasabha:</b> The Aligarh Movement – Sayyid Ahmed Khan – The ‘Two Nation Theory’- Birth of the Muslim League – The Hindu Mahasabha – Politics of Separatism and the Pathway to Pakistan.  2. <b>Emergence of Organised Nationalist Politics– Pre-1917 and Post-1917, till Independence:</b> Establishment of the Indian National Congress in 1885 – The Moderate phase of Nationalist Politics – The Surat Split (1907) and the birth of Extremism in India Politics – Role of Tilak, Pal, Aurobindo Ghosh and Lajpat Rai in extremist politics – Revolutionary movements in Bengal, Punjab and Maharashtra.  3. <b>Impact of First World War on India:</b> Economic Impact of First World War on India – Emergence of Gandhi – Concept of Satyagraha: Champaran, Kheda and Ahmedabad – Non-Cooperation Movement (1921-1922) – Civil Disobedience Movement (1930).  4. <b>Prelude to Independence:</b> The Quit India Movement (1942) – Subhas Chandra Bose and the INA – Post-War upsurge in India: Naval Mutiny – The transfer of Power – Cabinet Mission – Mountbatten’s negotiations – Mountbatten award – Partition and Independence.		19
<u>Unit 5:</u> 1) Framing of the Constitution	<b>The beginning of a New Era, India after Independence:</b> Making of the Indian Constitution – Salient Features of the Constitution with emphasis on social and economic empowerment and women empowerment – Five Year Plans – Nehru and Non-Alignment Movement – Liberalisation and the Opening up of the Indian Economy in the 1990s.		07

UNIT No.	TOPICS	CONTACT HOURS	MARKS
Unit 6: 1) Nation Formation and related aspects	<b>The 1971 Indo-Pak War:</b> Formation of Bangladesh and its impact on India.		07

### CLASS XII : Revised Project

**FULL MARKS : 20**

1. Globalization
2. Women's Right Movement
3. Recent Political Crisis (International)
4. New Social Movement
5. A visit to any museum (local or otherwise) in West Bengal
6. A visit to any place of historical significance in West Bengal
7. Anti-Corruption Movement
8. Environmental Movement
9. World Peace Movement

**[Note: 40 Hours reserved for Project , Remedial classes, Tutorials and Home Assignments.]**

## Political Science

### Theory

#### CLASS XI : SEMESTER 1

UNIT 2	<b>State: Definition and Characteristics</b>  Definition of State Characteristics of State	<b>(PLEASE NOTE THAT “THEORIES REGARDING ORIGIN OF THE STATE” IS NOT INCLUDED)</b>
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#### CLASS XI : SEMESTER 2

UNIT 2	<b>Nation and Nationalism</b> Tagore’s views of Nationalism	<b>(with emphasis on internationalism)</b>
UNIT 3	Forms of Government to be read as	<b>TYPES of GOVERNMENT</b>

#### CLASS XII : Revised SEMESTER 3 Syllabus

**TOPIC : 1. CONTEMPORARY WORLD POLITICS**

**2. INDIAN GOVERNMENT AND CONTEMPORARY POLITICS**

UNIT No.	TOPICS	CONTACT HOURS	MARKS
1	<b>International Relations in the Post-Second World War Period:</b>  <b>Cold War Era-</b> Brief Discussion on Bipolarity and End of Bipolarity (outline of ideological conflict with emphasis on NATO and Warsaw Pact) <b>Non-Aligned Movement:</b> Origin, Aims and Objectives; Leaders of NAM and present relevance of NAM	20	08
2	<b>International Organizations and Institutions</b> <ul style="list-style-type: none"><li>• <b>United Nations-</b> Aims and Principles</li><li>• <b>General Assembly</b> – Composition and Functions</li><li>• <b>Security Council</b> -Composition and Functions</li><li>• <b>Secretary General-</b> Power and Function</li><li>• <b>Agencies-</b> UNICEF, UNESCO, WHO</li><li>• World Bank and International Monetary Fund (IMF)</li></ul>	20	08
3	<b>Security in the Contemporary World:</b> <ul style="list-style-type: none"><li>• <b>Traditional Security</b> – Internal and External</li><li>• <b>Non-traditional Security</b> – Human Security, Terrorism, Migration, Poverty, Epidemics Environmental Security (Brief Discussions on the topics)</li></ul>	10	07
4	<b>Challenges of Nation-Building</b> <ul style="list-style-type: none"><li>• <b>Basic Concept</b> -Partition of India and the Refugee Problem</li><li>• <b>Integration of Princely States</b> -with brief reference to Jammu and Kashmir, Manipur and Hyderabad</li></ul>	20	05

	<ul style="list-style-type: none"> <li>• <b>Linguistic Re-organisation of States-</b> Background and Brief Discussion</li> </ul> <p>(To also include a Table on the Newly Created States in India- Original State, New State, Date of Creation, Criteria of Creation)</p>		
5	<b>Political Parties and Party System</b> <ul style="list-style-type: none"> <li>• Definition and Features of Political Parties</li> <li>• Functions of Political Parties</li> <li>• National and Regional Parties- Definition and Criteria of Formation</li> </ul>	20	05
6	<b>India's Foreign Policy</b> <ul style="list-style-type: none"> <li>• Objectives of India's foreign policy with her Neighbours in the contemporary period (Year 2000 onwards)- Sri Lanka, Pakistan, Bangladesh, Nepal, Bhutan, Maldives</li> <li>• India's relations with the Major Powers in the post-Cold War period with reference to the USA, Russia and China</li> <li>• Features of India's Nuclear Policy- Brief Analysis</li> </ul>	10	07

### **CLASS XII : Revised SEMESTER 4 Syllabus**

UNIT No.	TOPICS	CONTACT HOURS	MARKS
1	<b>International Relations (IR) -Key Concepts and Political Doctrines</b> <ul style="list-style-type: none"> <li>• Evolution of IR as a Discipline</li> <li>• Definition and Basic Features -Realism, Idealism, Liberalism, Marxism</li> </ul>	18	08
2	<b>Major Regional Organisations</b> <ul style="list-style-type: none"> <li>• European Union</li> <li>• SAARC</li> <li>• ASEAN</li> </ul>	10	06
3	<b>Globalisation</b> <ul style="list-style-type: none"> <li>• Definition and Features</li> <li>• Economic, Political and Cultural Consequences,</li> <li>• India and Globalisation : An Analysis</li> </ul>	08	06
4	<b>Organs of the Indian Government:</b> <ul style="list-style-type: none"> <li>• Executive in India -Powers and Functions (President, PM, Governor, Chief Minister, Bureaucracy as a Permanent Executive)</li> <li>• Legislature in India - Composition and Functions (Lok Sabha, Rajya Sabha, Vidhan Sabha); Speaker of Lok Sabha- (Power and Functions)</li> <li>• Judiciary in India – Composition and Jurisdiction (Supreme Court, High Court, PILs, Consumer Courts)</li> </ul>	24	08
5	<b>Contemporary Civil Society Movements in India</b> <ul style="list-style-type: none"> <li>• Civil Society Movements: Concept and Importance</li> </ul> Brief Outline of : <ul style="list-style-type: none"> <li>• Narmada Bachao Andolan</li> <li>• Chipko Movement</li> </ul>	08	06

6	<b>Constitutional Amendments and Local Self-Government</b> (as per original syllabus )		

## **Accountancy**

### **Theory**

#### **CLASS XII : SEMESTER 3**

Unit 3 : “OR” portion “Computerized Accounts -I” deleted

#### **CLASS XII : SEMESTER 4**

Unit 3 : “OR” portion “Computerized Accounts -II” deleted

## **Costing and Taxation**

### **Theory**

#### **CLASS XI : SEMESTER 1**

Unit 3C :

Topics Deleted :

- Income from Dividend [ Section 10(34) ]
- Income from Units [ Section 10(35) ]
- Long Term Capital Gains from transfer of equity shares or units [ Section 10(38) ]

## **Business Studies**

### **Theory**

#### **CLASS XII : SEMESTER 3**

Unit 6 : Marketing Management-1

- Point “Promotion” to “Publicity” shifted to Semester 4 as Unit 12 named “Marketing Management-2”
- For Unit 6- Marketing Management-1 , Contact Hours : 18 and Marks : 5
- Unit 12 - Consumer Protection shifted under Semester 3 as Unit 7 with Contact Hours : 8 and Marks : 5

#### **CLASS XII : SEMESTER 4**

Unit 6 : Marketing Management-1

- Point “Promotion” to “Publicity” from Unit 6 of Semester 3 shifted under Semester 4 as Marketing Management - 2 with Contact Hours : 8 and Marks : 5
- Unit 12 - Consumer Protection shifted to Semester 3 as Unit 7 with Contact Hours : 8 and Marks : 5

**Education**  
**Theory**  
**CLASS XI : SEMESTER 1**

Group A Unit IIC: Addition :

( Full form , Establishment Year and Maximum Ten Functions )

**CLASS XI Semester 1 : Internal Assessment [ Revised ]**

**Internal Assessment: 10 Marks (10 Contact Hours)**

(Teacher must keep records of the attendance and remarks)

1. **Demonstration on a Topic** (Teacher will assign a topic from the courses taught and inform students prior to the assessment. Students will demonstrate the topic in front of the class.)
2. **Group Discussion: (Brain Storming)** (The teacher will assign topics to different student's groups. The group will be based on situation and class size. Topic of group discussion will be informed to the students prior to the assessment.)
3. **Debate / Discussion on a Topic** (Teacher will assign topic prior to the assessment)  
\*The teacher must give remarks on basis of content knowledge, presentation skill, interaction, body language.

**Marks distribution for Internal Assessment**

<b>Criteria for Marks</b>	<b>Total Marks 10</b>
Class Attendance	1 Marks
Content Knowledge	1 Marks
Presentation Skill	1 Marks
Interaction	1 Marks
Body Language	1 Marks
Students will write minimum 10 points on the selected topic	5 Marks

**Sample documentation sheet for School**

<b>Sl. No.</b>	<b>Signature of the Student</b>	<b>H.S. Roll No.</b>	<b>H.S. Regi. No.</b>	<b>Awarded Marks</b>

**Signature of the Class Teacher**

**Signature of the HM with Seal**

**CLASS XI : SEMESTER 2**

Group D Unit IID: Addition :

( Brief Biography, Social and Educational Contribution only)

**CLASS XI Semester 2 : Internal Assessment [ Revised ]**

**Internal Assessment: 10 Marks (10 Contact Hours)**

(Teacher must keep records of the attendance and remarks)

- 1. Demonstration on a Topic** (Teacher will assign a topic from the courses taught and inform students prior to the assessment. Students will demonstrate the topic in front of the class.)
- 2. Group Discussion: (Brain Storming)** (The teacher will assign topics to different student's groups. The group will be based on situation and class size. Topic of group discussion will be informed to the students prior to the assessment.)
- 3. Debate / Discussion on a Topic** (Teacher will assign topic prior to the assessment)  
\*The teacher must give remarks on basis of content knowledge, presentation skill, interaction, body language.

**Marks distribution for Internal Assessment**

<b>Criteria for Marks</b>	<b>Total Marks 10</b>
Class Attendance	1 Marks
Content Knowledge	1 Marks
Presentation Skill	1 Marks
Interaction	1 Marks
Body Language	1 Marks
Students will write minimum 10 points on the selected topic	5 Marks

**Sample documentation sheet for School**

<b>Sl. No.</b>	<b>Signature of the Student</b>	<b>H.S. Roll No.</b>	<b>H.S. Regi. No.</b>	<b>Awarded Marks</b>

**Signature of the Class Teacher**

**Signature of the HM with Seal**

### CLASS XII : SEMESTER 3

Group A Unit IIE: Addition :

( Aims, Methods, Curriculum, Discipline & Educational Implication)

#### CLASS XII Semester 3 : Internal Assessment [ Revised ]

#### **Internal Assessment: 10 Marks (10 Contact Hours)**

(Teacher must keep records of the attendance and remarks)

- 1. Demonstration on a Topic** (Teacher will assign a topic from the courses taught and inform students prior to the assessment. Students will demonstrate the topic in front of the class.)
- 2. Group Discussion: (Brain Storming)** (The teacher will assign topics to different student's groups. The group will be based on situation and class size. Topic of group discussion will be informed to the students prior to the assessment.)
- 3. Debate / Discussion on a Topic** (Teacher will assign topic prior to the assessment)  
\*The teacher must give remarks on basis of content knowledge, presentation skill, interaction, body language.

#### **Marks distribution for Internal Assessment**

<b>Criteria for Marks</b>	<b>Total Marks 10</b>
Class Attendance	1 Marks
Content Knowledge	1 Marks
Presentation Skill	1 Marks
Interaction	1 Marks
Body Language	1 Marks
Students will write minimum 10 points on the selected topic	5 Marks

#### **Sample documentation sheet for school**

<b>Sl. No.</b>	<b>Signature of the Student</b>	<b>H.S. Roll No.</b>	<b>H.S. Regi. No.</b>	<b>Awarded Marks</b>

**Signature of the Class Teacher**

**Signature of the HM with Seal**

**CLASS XII Semester 4 : Internal Assessment [ Revised ]**

**Internal Assessment: 10 Marks (10 Contact Hours)**

(Teacher must keep records of the attendance and remarks)

- 1. Demonstration on a Topic** (Teacher will assign a topic from the courses taught and inform students prior to the assessment. Students will demonstrate the topic in front of the class.)
- 2. Group Discussion: (Brain Storming)** (The teacher will assign topics to different student's groups. The group will be based on situation and class size. Topic of group discussion will be informed to the students prior to the assessment.)

- 3. Debate / Discussion on a Topic** (Teacher will assign topic prior to the assessment)

\*The teacher must give remarks on basis of content knowledge, presentation skill, interaction, body language.

**Marks distribution for Internal Assessment**

Criteria for Marks	Total Marks 10
Class Attendance	1 Marks
Content Knowledge	1 Marks
Presentation Skill	1 Marks
Interaction	1 Marks
Body Language	1 Marks
Students will write minimum 10 points on the selected topic	5 Marks

**Sample documentation sheet for School**

Sl. No.	Signature of the Student	H.S. Roll No.	H.S. Regi. No.	Awarded Marks

**Signature of the Class Teacher**

**Signature of the HM with Seal**

**Science of Well Being**  
**Theory**  
**CLASS XII : SEMESTER 3**

Unit 2 (i) : Deleted Topics :

- Estate Planning
- Purchasing and Selling bonds
- Time, Value of Money
- Planned expense and GDP

**CLASS XII : SEMESTER 4 [ Revised ]**

**Theory Marks – 40**

**Contact Hours : 70**

Sl No	Topics	Marks allotted	Contact Hours
<b>Unit 3 : Concept of Spiritual Wellbeing</b>			
1	Concept of Spiritual Well-being , Indicators of spiritual well-being , connectedness with self and others , gratitude , forgiveness	20	7
2	Relationship between morals , ethics and spirituality		8
3	Behaviors associated with Spiritual Well-being : personal domain- practising self care and self development Inter personal relationship domain: sense of belongingness, connecting with others . Environment domain : connecting with nature , Transcendence and bliss.		10
4	Techniques of nurturing Spiritual Well being : Development of self awareness, Resisting temptation , Embracing the unknown and new , Unconditional acceptance , Mindfulness , Meditation , Yoga.		10
<b>Unit 4 : Concept of Emotional Wellbeing</b>			
1	Concept, Definition and indicators of emotional well-being : resilience , empathy	20	8
2	Emotional Intelligence and its relationship with emotional well-being		7
3	Factors affecting emotional well-being: physiological and psychological factors		10
4	Techniques used to improve emotional well-being: Assertiveness, mindfulness, meditation , yoga , biofeedback		10

**Statistics**

**Theory**

**CLASS XI : SEMESTER 1**

Unit 4 : Deleted topic :  
Stem and Leaf Diagram

**CLASS XII : SEMESTER 3**

Unit 3 :  
'Fitting of above distribution' to be replaced by '**Fitting of Binomial & Poisson distribution**'

**CLASS XII : SEMESTER 4**

Unit 4 : Deleted topic :  
Fitting of above distribution

**CLASS XII : Practical**

Problem 2 : to be replaced by '**Application and Fitting of Binomial Distribution , Poisson Distribution and only applications of Normal Distribution**'

Problem 6 : to be replaced by '**Testing of hypothesis in case of Binomial proportion , Poisson parameter , mean and variance of Normal distribution ,  $X^2$ - goodness of fit**'

## **Philosophy**

### **Theory**

#### **CLASS XI : SEMESTER 2**

Unit 2 : 2(b) : to be replaced with 'Utilitarianism - Bentham and Mill , Kant's categorical imperative'

#### **CLASS XII : SEMESTER 3**

Unit 1 : 2 : Points under heading 'Vedanta' changed to :

1. Basic concepts of Vedanta
2. Brahman and Maya according to Sankaracharya

Unit 2 :

Heading 'Ethics' changed to 'Practical Ethics'

Points under Practical Ethics :

1. Suicide and Euthanasia
2. Environmental Ethics : Nature and Scope

## Environmental Studies

### Theory

CLASS XII : SEMESTER 3 | Revised |

**FULL MARKS:40**

**CONTACT HOURS :100 HOURS**

<b>Chapter</b>	<b>Subtopics</b>	<b>Contact Hours</b>	<b>Marks</b>
<b>5. Principles of ecology</b>	<b>5.1 Basic concepts and definitions: ecology, landscape, habitat, ecological niche, ecozones, biosphere, ecosystem, ecosystem stability, biome</b> <b>5.2 Autecology; synecology; major terrestrial biomes</b> <b>5.3 Types of ecosystems: forest, grassland, lentic, lotic, estuarine, marine, desert, wetlands</b> <b>5.4 Ecosystem structure: biotic and abiotic components and their role in ecosystem</b> <b>5.5 Ecosystem connections with characteristics and significance: food chain, food web, energy flow, The 10 Percent Law by Lindemann, ecological efficiency , ecological pyramids: pyramids of number, biomass, and energy</b> <b>5.6 Biogeochemical Cycles: O<sub>2</sub>, C, N<sub>2</sub> Exercise</b>	<b>50</b>	<b>20</b>
<b>6. Biodiversity</b>	<b>6.1 Concept of Biodiversity</b> <b>6.2 Importance of Biodiversity</b> <b>6.3 Levels of Biodiversity (Genetic, Species and Ecosystem, Domestic)</b> <b>6.4 Loss of Biodiversity (Causes and effects)</b> <b>6.5 Balance in Nature</b> <b>6.6 India as Megadiverse Country</b> <b>6.7 Common Plants and Animals of India</b> <b>6.8 Economic Importance</b> <b>6.9 Wildlife in Trade (Legal, Illegal, Challenges and Solutions)</b> <b>6.10 Strategies and needs of Conservation - in -situ, ex-situ, red data book, IUCN categories Exercise</b>	<b>50</b>	<b>20</b>

**CLASS XII : SEMESTER 4 | Revised |**

**FULL MARKS:40**

**CONTACT HOURS :80 HOURS**

<b>Chapter</b>	<b>Subtopics</b>	<b>Contact Hours</b>	<b>Marks</b>
<b>7.Environmental pollution and pollution control</b>	<b>7.1 Concepts and Types of Pollution 7.2 Air Pollution: Source, impact, control measures; Ozone Layer Depletion and its Effects, Green House Effects and Global Warming; Ambient Air Quality Standards 7.3 Water Pollution: Source, impact, control measures; Water Quality Parameters and Standards 7.4 Soil Pollution: Source, impact, control measures; Soil quality indicators 7.5 Noise Pollution: Source, impact, control measures; Noise level parameters 7.6 Radiation Pollution: Source, impact, control measures 7.7 Pollution related Diseases 7.8 Disaster – Natural &amp; Man-Made 7.9 Strategies for Pollution Abatement and Environmental Quality Improvement 7.10 Clean Development Mechanism (CDM) 7.11 Regulatory framework for pollution monitoring and control; case study: Ganga Action Plan; Yamuna Action Plan Exercise</b>	<b>45</b>	<b>20</b>
<b>8.Environmental law and management</b>	<b>8.1 Concept of Environmental Management: Need, Aspect, Approaches (Social, Economic and Moral) 8.2 Waste Management: Solid, Liquid, Biomedical and Hazardous 8.3 4R Management 8.4 Legal Provisions for Environmental Management: The Indian Forest Act 1927; The Wildlife (Protection) Act 1972; The Water (Prevention and Control of Pollution) Act 1974; The Water (Prevention and Control of Pollution) Cess Act 1977; The Forests (Conservation) Act 1980; The Air (Prevention and Control of Pollution) Act 1981; The Environment (Protection) Act 1986; Motor Vehicle Act 1988; The Public Liability Insurance Act 1991; Noise Pollution (Regulation and Control) Rules 2000; The Biological Diversity Act 2002 8.5 Approaches for Environmental Management Exercise</b>	<b>35</b>	<b>20</b>

**CLASS XI : Project [ Revised ]**

**Full Marks: 20**

**Contact Hours: 20 Hours**

<b>Chapter</b>	<b>Subtopics</b>	<b>Marks</b>	<b>Hours</b>
<b>Home Assignment</b>	<b>PROJECT- I</b>  –Application of Biofertilizer in Agriculture  –Eco-friendly unconventional source of Energy  – Plantation Programme in your locality  – Social Issues (Child Labour/Child Marriage/– Child Education, etc.) in your locality	<b>PROJECT:15</b>  <b>VIVA : 5</b> <b>Project based</b>	<b>10</b>
<b>Tutorial</b>			<b>5</b>
<b>Remedial</b>			<b>5</b>

**CLASS XII : Project [ Revised ]**

**Full Marks: 20**

**Contact Hours: 20 Hours**

<b>Chapter</b>	<b>Subtopics</b>	<b>Marks</b>	<b>Hours</b>
<b>Home Assignment</b>	<b>PROJECT II</b>  –Rainwater Harvesting  –Waste Management System in (Municipality /Panchayet) your locality  –Study of Biodiversity in your locality  –Water/Air/ Noise Pollution in your locality	<b>PROJECT:15</b>  <b>VIVA : 5</b> <b>Project based</b>	<b>10</b>
<b>Tutorial</b>			<b>5</b>
<b>Remedial</b>			<b>5</b>

**Economics**  
**Theory**  
**CLASS XII : SEMESTER 3[Revised]**

**FULL MARKS: 40**

**CONTACT HOURS: 100 HOURS**

**Macroeconomics & Indian Economic Development**

UNIT No.	TOPICS	CONTACT HOURS	MARKS
Unit – 1  Macroeconomics	<p>National Income Accounting: <b>(Modified parts)</b></p> <p>a. i. Concept of Stocks &amp; Flows, Concept of Transfer Payments, Concept of Closed Economy &amp; Open Economy, Concepts of GDP, GNP, NDP, NNP, NI, Concept of factor cost and Market price , Concept on intermediate and final goods , Real Income vs Nominal Income.</p> <p>ii. Implementation of factor cost and Market price concept for GDP, GNP, NDP, NNP, NI and simple numerical problem on conversion.</p> <p>b. Methods of Measuring NI:</p> <p>i. Product Census Method (mentioning Value Added Method)</p> <p>ii. Income Method</p> <p>iii. Expenditure Method</p> <p>iv. Simple numerical problems on all methods.</p> <p>c. Difficulties of measuring NI.</p>	20	8
Unit – 2  Macroeconomics	<p>Simple Keynesian system (Closed Economy Model with Government) <b>(Modified parts)</b></p> <p>a. Keynesian Consumption Function &amp; Savings Function(mentioning MPC,APC,MPS and APS and their relationship)</p> <p>b. Cross-Diagonal Model,</p> <p>i. Determination of equilibrium income, impact on equilibrium due to the change in each of the following factors- investment, Government expenditure, taxation.</p> <p>ii. Concept of paradox of thrift.</p> <p>c. Basic concept of Government Budget and taxation.</p> <p>d. Alternative Forms of Multiplier: Investment Multiplier, Government Expenditure Multiplier, Tax Multiplier, Balanced Budget Multiplier.</p>	20	8

UNIT No.	TOPICS	CONTACT HOURS	MARKS
Unit-3  Macroeconomics	Balance of Payments & Exchange Rate  a. Concepts of BOP: i. Balance of Current Account, Balance of Capital Account, Autonomous & Accommodating Transactions. ii. Difference between balance of payment and balance of trade, Capital Account and Current Account, Autonomous & Accommodating Transactions. iii. Causes and solution of balance of payment disequilibrium.  b. i. Basic Concepts and Types of Exchange Rates ii. Types of exchange rate(Fixed, Flexible and managed float) iii. Advantages and disadvantages of Fixed and Flexible exchanges.	10	4
Unit – 4  Indian Economic Development	Brief Reference to Colonial Past: <b>(New parts)</b> i. Impact of British rule on agricultural sector, factors causing backwardness and stagnation of Indian agriculture during the British rule a) 1. Low level of productivity 2. High Degree of vulnerability 3. Absence of organized market for agricultural product. 4. Labour intensive technique of production 5. Feudalism in agriculture 6. Sub division of Land holding. b) Introduction of land revenue system under the British rule and forced commercialization of agriculture sector.  ii. Impact of British rule on industrial sector 1. Decay of handicraft 2. New pattern of demand 3. Introduction of Railways in India iii. Foreign trade under British rule 1. Net exporter of primary product and importer of finished goods 2. Monopoly control of Indian's Foreign trade (mentioning Suez canal and access to Indian market) 3. Surplus trade but only to benefit Britishers. iv. Drainage of Indian economic resources (Dadabai Nauroji's theory)	10	4
Unit – 5  Indian Economic Development	Evolving Features of Indian Economy :  a. Sectoral Composition of NI and changes over time during Pre-Liberalization and Post Liberalization Period b. Occupation Distribution of NI during Pre-Liberalization and Post-Liberalization Period, Post-Independence Period & Changes thereof c. Types of Unemployment – Changes in Occupational Patterns during Pre-Liberalization & Post-Liberalization Period – Problem of Unemployment in India – Different Employment Generating Programs in the Post-Liberalization Period – Jobless Growth.	20	8

	d. India & Its Neighbours – a Comparison of Economic Growth, Population & Sectoral Development & other Human Development Indicators (Comparison with China)		
Unit-6 Indian Economic Development	Agriculture : a. Problems in Agricultural in the Post-Independence Era- 1 <sup>st</sup> Plan and Green Revolution b. Institutional Reforms: Land Reforms & Operation Barga –Reforms in Rural Credit. c. Agricultural Reforms in the Post-Liberalization Era – Impact of Globalization in Indian Agriculture d. Food Security & Public Distribution System	20	8

**CLASS XII : SEMESTER 4[Revised]**

**FULL MARKS: 40      CONTACT HOURS: 80 HOURS**

**Macroeconomics & Indian Economic Development**

<b>UNIT No.</b>	<b>TOPICS</b>	<b>CONTACT HOURS</b>	<b>MARKS</b>
Unit – 1 Macroeconomics	Money, Banking & Inflation : a. Concept & Functions of Money b. Basics of Supply of Money, Central Bank Money, Process of Credit Creation & Role of Commercial Banks, Concept of Money Multiplier c. Concept of Inflation, Demand Pull Inflation, Cost Push Inflation, Stagflation. d. Functions of Central Bank & Methods of Credit Control: Direct Control vs Indirect Control; Control Rates: CRR, SLR, Repo Rate, Bank Rate, Prime Lending Rate	20	10
Unit – 2 Macroeconomics	Financing of Government Budget: a. Public Finance vs Private Finance b. Sources of Government Revenue: Tax & Non-Tax Revenue, Alternative Forms of Taxes – Progressive & Proportional Taxes, Direct and Indirect Taxes, Concept of GST, Sources of Non-Tax revenue c. Concept of Government Budget & Budget Deficit: Revenue Deficit, Fiscal Deficit, Primary Deficit, Monetization of Fiscal Deficit & Inflation, Balanced Budget Multiplier d. Public Debt: Internal vs External Debt; Short Term vs Long Term Debt	20	10

UNIT No.	TOPICS	CONTACT HOURS	MARKS
Unit-3 Indian Economic Problems	Industry: a. 2nd 5-year Plan, Mahalanobish Model & Industrial Growth b. Industrial Liberalization in 1991 – Its Impact on Industrial growth c. Trade Policy & Impact of Globalization on Indian Industry – Shift in Trade Policy Regime from Import Substitution to Export Promotion – India as a member of WTO d. Importance of Small Scale and Village Industries	10	4
Unit – 4 Indian Economic Problems	Service Sector : a. Growth in Service Sector in India b. Growth in Trade of Services (Financial Sector, Information Technology Sector, Outsourcing) c. Impact of Economic Liberalization & Globalization on Service Sector Growth	15	8
Unit – 5 Indian Economic Problems	Inclusive Growth : a. Inclusive Growth –Definition & Measurement of Inclusive Growth b. Sustainable Development: 17 SDGs of UNDP c. Inequality & Poverty: Basic Measurements – Head Count Ratio, Poverty Gap, Lorenz Curve; Changes in Indian Scenario during 1950-1990, 1991-2019; Special Programs & Policies Adopted in India to Eradicate Poverty with special reference to West Bengal d. Environmental Problems of Economic Growth with special reference to India e. Human Development: Concept of HDI, Indian Scenario f. NITI Aayog <b>(New parts)</b>  i. Concept of NITI Aayog: The National Institute for Transforming India(NITI Aayog) is a policy think tank that provides strategic advice to the Indian Government. It was establish on 1 <sup>st</sup> January 2015 in New Delhi, replacing the Planning Commission. It is supported by Development Monitoring and Evaluation Organisation (DNEO), the Atal Innovation Mission(AIM)and the National Institute of Labour Economics Research and Development(NILERD) ii. Objectives : Economic development Co-operative Federalism, Policy support , Research and innovation , Resources center , technology advancement. iii. Functions: It includes formulating strategic and long term policy framework and monitoring the implementation of Government program. It also provides technical advice to bothCentral and State Government. It also aims to fulfill the goals of SDG.	15	8

**Geography**  
**Theory**  
**CLASS XI : SEMESTER 1**

Fundamentals of Physical Geography

**Syllabus before revision**

**Unit 4: Weather and Climate**

Composition and structure of the Atmosphere: gaseous, liquid, and solid components of atmosphere; Layering of atmosphere based on thermal characteristics and elemental distribution

**Revised Syllabus**

**Unit 4: Weather and Climate**

Composition of the Atmosphere: gaseous, liquid, and solid components of atmosphere; Layering structure of the Atmosphere: on the basis of thermal characteristics and chemical components.

Fundamentals of Human Geography

**Syllabus before revision**

**Unit 1:**

**Scope and Content of Human Geography:**

Concept of man-environmental relationship; Fields and sub-fields of Human Geography

Unit 2: Primary Activities:

Hunting and gathering; Pastoralism; Agriculture (Subsistence, Commercial, Mixed, Market gardening, and Dairy farming); Production-wise distribution of important cash crop of two globally leading countries (except India) – coffee, sugarcane, and cotton; Mining: types and environmental problems **Revised Syllabus**

**Unit 1: Human Geography**

Scope and Content of Human Geography: Concept of man-environmental relationship;

**Unit 2: Primary Activities**

Definition, characteristics of Hunting and gathering; Pastoralism; Agriculture (Subsistence, Commercial, Mixed, Market gardening, and Dairy farming); Favorable geographical conditions and Production-wise distribution of important cash crop of any one globally leading country (except India) – coffee, sugarcane, and cotton; Mining : types and environmental problems.

## **GEOGRAPHY OF INDIA**

### **Syllabus before revision**

#### **Unit 1: India as a country:**

Neighbouring countries

#### **Unit 2: India-Structure and Physiography:**

#### **Unit 3: India-drainage systems:**

Uses and sharing of river water

### **Revised syllabus**

#### **Unit 1: India as a country:**

General information of neighbouring countries.

Unit 2: India- Physiography

#### **Unit 3: India-drainage systems:**

Uses and sharing of river water ( Ganga, Indus, Krishna, Godavari and Kaveri)

## **CLASS XI : SEMESTER 2**

### **Fundamentals of Physical Geography**

### **Syllabus before revision**

#### **Unit 2: Endogenic Processes:**

Folding and faulting (mechanism, structure, and types)

#### **Unit 3: Climatic Elements**

Inversion of temperature

#### **Unit 4: Hydrosphere**

Concept of run-off

### **Revised syllabus**

#### **Unit 2: Endogenic Processes:**

Definition, mechanism, structural elements and resultant landforms of Fold and Fault: Types of fold on the basis of axis and axis plane: types of fault on basis of origin.

### **Unit 3: Climatic Elements**

Inversion of temperature (definition and types)

### **Unit 4: Hydrosphere**

Definition, Types (surface and sub-surface) and controlling factors of run-off.

## **FUNDAMENTALS OF HUMAN GEOGRAPHY**

### **Syllabus before revision:**

**Hours 16**

#### **Unit 1: Secondary Activities- Industry:**

Production-wise distribution pattern of industries (leading two countries worldwide except India)

(12 hours)

#### **Unit 2: Tertiary Activities**

Definition, Classification, Case study (Trade; Transport; Service; Communication; Tourism)

(2 hours)

### **Revised syllabus**

**Hours 11**

#### **Unit 1: Secondary Activities- Industry:**

Distribution and favourable condition for the development of the following industries of any one leading country of world (except India)-

Hours: 6

#### **Unit 2: Tertiary Activities**

Definition, classification: Trade, Transport, Service, Commutation and Tourism.

Hours-3

## **GEOGRAPHY OF INDIA**

### **Syllabus before revised**

**Hours: 14**

#### **Unit 1: Indian Climate:**

Hours: 06

#### **Unit 2: Forests of India:**

Hours: 03

#### **Unit 3:**

## Natural Hazards and Disasters of India:

Concept and classification of hazards; Types of disasters: Natural disaster management policy; Hazard prone zones of West Bengal.

Hours: 05

### Revised Syllabus

**Hours: 19**

#### **Unit 1: Indian Climate:**

Hours: 08

#### **Unit 2: Forests of India:**

Hours: 04

#### **Unit 3:**

#### **Natural Hazards and Disasters of India:**

Definition and classification of hazards and disasters; National disaster management policy, 2019; Hazards prone zones of India with special reference of West Bengal.

Hours: 07

## Class XII : SEMESTER – 3

### Fundamentals of Physical Geography

SYLLABUS BEFORE REVISION	REVISED SYLLABUS
<b>Unit 1: Geotectonic:</b> Continental drift Theory according to Alfred Wegner <b>(6 hours)</b>	Continental drift Theory according to Alfred Wegner – Concept, evidence, force of drifting and criticism <b>(3 hours)</b>
<b>Unit 2: Geomorphic Process:</b> Exogenic process – Mass Wasting , Glacial landforms, and Karst landforms	Exogenic process – Mass wasting (Definition and types); Glacial Landforms (Types of Glacier, erosional and depositional processes with associated landforms); Work of Ground water and associated landforms (Erosional processes, landforms developed by Ground water – A. Erosional landforms : Sinkholes, doliens , caves, cavern and karst lakes B. Depositional landforms: Stalactites, stalagmites and cave pillars).
<b>Unit 4: Hydrosphere:</b> Characteristics of ocean floor; Temperature and salinity; Ocean minerals, food, and power; Ocean deposits <b>(9 hours)</b>	Topography of Ocean floor- Major divisions, General characteristics of Ocean floor ;Controlling factors and distribution of temperature, salinity and density of ocean water; Importance of Marine resources – Minerals, Food and Power; Classification of Ocean deposits according to origin and location <b>(10 hours)</b>
<b>Unit 5: Biosphere:</b> <b>(5 hours)</b>	<b>(6 hours)</b>

### Fundamentals of Human Geography

SYLLABUS BEFORE REVISION	REVISED SYLLABUS
<b>Unit 1: Population:</b> Distribution and density of population (worldwide); Determinants and measures of population growth – birth rate, death rate migration <b>(10 hours)</b>	Distribution and Density of population (worldwide); Determinants and measures of Population Growth – Birth rate, Death rate, Migration (Definition and types of Migration); Concept of Age-Sex pyramid <b>(7 hours)</b>
<b>Unit 2: Settlement:</b>	Types and patterns of settlement

Classification, types and patterns of settlement	
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### Geography of India

SYLLABUS BEFORE REVISION	REVISED SYLLABUS
<b>Unit 2: Water Resources:</b> (3 hours)	<b>(4 hours)</b>
<b>Unit 4: Agriculture:</b> Importance of agriculture in Indian economy: Concept of Crop calendar, Crop rotation, Crop combination and cropping intensity; Green, White and Blue revolution in India	Importance of agriculture in Indian economy: Basic Concept of Crop calendar, Crop rotation, Crop combination and cropping intensity; Concept of Green, White and Blue revolution in India.
<b>Unit 6: Trade and Economy:</b> Concept; Classification; Bases; Importance (2 Hours)	Concept, classification; bases and Importance; Role of WTO in International trade <b>(3 hours)</b>

### Class XII : SEMESTER – 4

#### Fundamentals of Physical Geography

SYLLABUS BEFORE REVISION	REVISED SYLLABUS
<b>Unit 1: Geotectonic:</b> Sea floor spreading; Plate tectonic and associated landforms	Sea floor spreading – Definition, evidences and causes; Concept and classification of Plate, types of Plate boundaries and associated landforms.
<b>Unit 3: Cycle of erosion:</b> Concept of rejuvenation	Rejuvenation and resultant landforms.
<b>Unit 4: Atmosphere:</b> Weather systems and atmospheric disturbances; Climatic classification after Koppen. Concept of climate change	Atmospheric Disturbances – Definition, characteristics and mechanism of Cyclone (Tropical and Temperate zones) and Anti cyclones; Climatic classification after Koppen; Causes and evidences of climatic change.
<b>Unit 6: Biosphere:</b> (4 hours)	<b>(5 hours)</b>

#### Fundamentals of Human Geography

SYLLABUS BEFORE REVISION	REVISED SYLLABUS
<b>Unit 1: Population:</b> Demographic Transition Model	Demographic transition model by Thompson and Notestein

### Geography of India

SYLLABUS BEFORE REVISION	REVISED SYLLABUS
<b>Unit 1 : Indian Industries:</b>  <ul style="list-style-type: none"> <li>• Agro-based – Food processing</li> <li>• Sea-based – Commercial marine Fishing</li> <li>• Forest-based –Paper industry</li> <li>• Mineral-based –Metallic(iron and steel); Non-metallic (Petrochemical)</li> <li>• Manufacturing-based –Automobile</li> <li>• Information and communication technology</li> </ul> <b>(7 hours)</b>	Distribution, causes of development, problems and prospects:  <ul style="list-style-type: none"> <li>• Agro-based – Food processing</li> <li>• Sea-based – Commercial marine Fishing</li> <li>• Forest-based –Paper industry</li> <li>• Mineral-based –Metallic(iron and steel); Non-metallic (Petrochemical)</li> <li>• Manufacturing-based –Automobile</li> <li>• Information and communication technology <b>(6 hours)</b></li> </ul>
<b>Unit 2: Human Settlement and Development in Indian context:</b>	Land resources and agricultural land use – Concept of land use and land cover, land use pattern of India, quality and

Land resources and agricultural planning (2 hours)	size of cultivable land holdings, methods to reduce fragmentation of land holdings (4 hours)
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**REVISED SYLLABUS FOR CLASS XII  
SUBJECT – GEOGRAPHY (PRACTICAL)**

SYLLABUS BEFORE REVISION	REVISED SYLLABUS
<b>Unit 2: Cartograms and Thematic Mapping:</b> e. Thematic maps – Dot and sphere; Isopleths; Choropleth	e. Thematic maps – Dot, Isopleths and Choropleth
<b>Unit 5: Preparation and Presentation of Field Report:</b> Note: Student of school in rural area will visit any type of urban Centre or unit / Student of school in urban area will visit a rural area.	Note: Students of school in rural area will visit any type of urban Centre or unit / Students of school in urban area will visit a rural area for Household survey.

**Biological Science**  
**Theory**  
**CLASS XII : SEMESTER 3**

**Unit -VII : Chapter 5**

**Addition of a term : ‘Transcription’  
between ‘ Central Dogma’ and ‘ Genetic Code’**

**Unit -VII : Chapter 6**

**Addition of a term : ‘Comparative Anatomy’  
between ‘Paleontology’ and ‘ Embryology’**

- **All the changes in the concerned subjects will get reflected in the 4<sup>th</sup> Edition of the syllabus book.**
- **Relevant changes will be made in our next version of the books of Model Question papers.**
- **Please note that, changes as stated in the Class XI syllabus in this Notification are not going to affect the students who are already in the process of preparation for the Class XI Semester 2 examination.**
- **Any changes mentioned here in this Notification will be effective from the next academic year.**



Dr.(Prof) Chiranjib Bhattacharjee  
PRESIDENT  
(WBCHSE)