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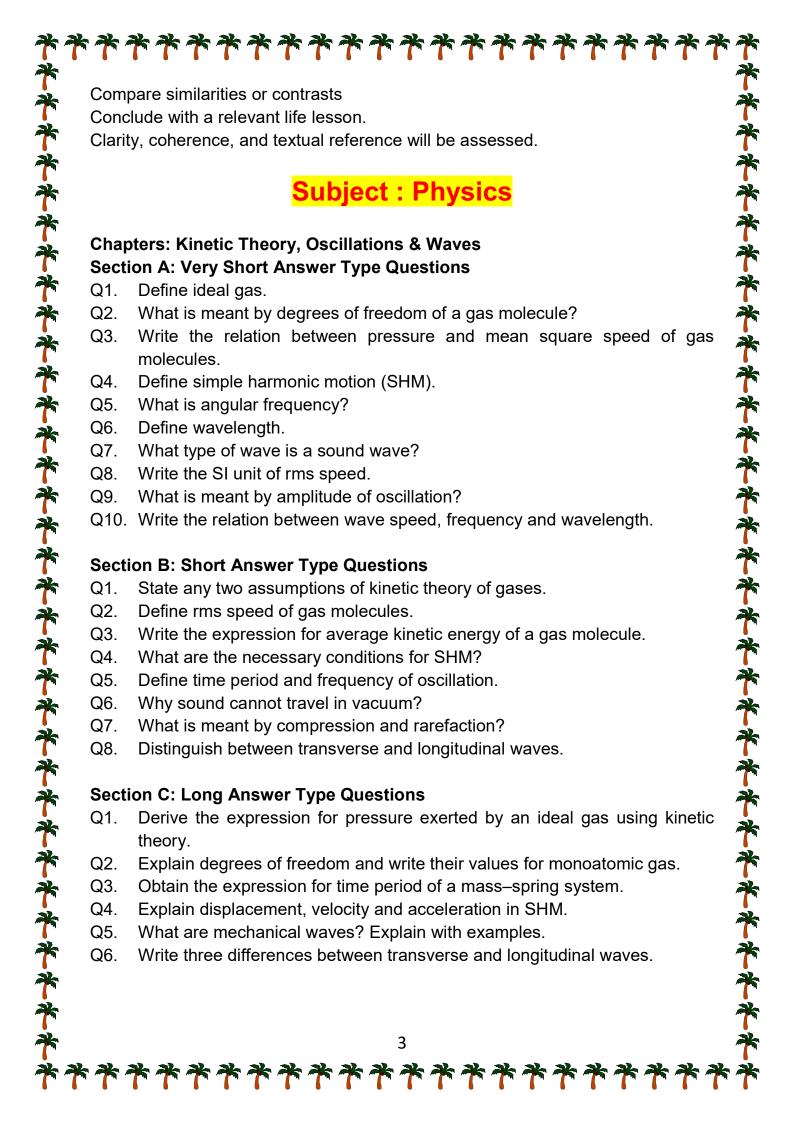
Session -

*************** <u>*</u>********************* **General Instructions:** 1. Use assignment sheets to do all the written work. Use a separate file (use A4 sheets) for project and activity work. 2. 3. Make separate file for each subject. 4. Do your work neatly and beautify it. 5. Revise the syllabus taught in the class so far. Subject : English Task 1 **Dialogue with Literature Objective:** To develop interpretation skills and engage deeply with literature. Instructions: Select any ONE character from your Class XI English textbook. Imagine that this character appears before you in today's world. Write a conversation (dialogue form) between: - You (as a Class XI student) - The literary character Word Limit: 180-200 words - Your dialogue must include: - At least two questions asked by you The character's views on modern society / youth / education / values A concluding thought showing what you learned from this interaction. Focus on originality, relevance to the text, and clarity of expression. Task 2 **Text-to-Text Connection Objective:** To develop comparative and analytical skills. Instructions: Select ANY TWO texts (prose/poem/story) from Hornbill and/or Snapshots. Write a comparative paragraph (180–200 words) focusing on ONE common aspect, such as: - Human values - Conflict and resolution - Role of nature - Growth and transformation - Social injustice

Your response should:

Mention both texts clearly

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	Subject : Chemistry
MUL	TIPLE CHOICE QUESTIONS
Q1.	A system in which no exchange of matter, but exchange of energy possible
	between system and the surroundings is called
	a) Open system b) closed system
	c) Isolated system d) None of these
Q2.	Which of the following is a state variable?
	a) temperature b) pressure
	c) volume d) All of them are state variables
Q3.	Identify the correct statement from the following.
	a) w _{ad} is negative when work is done on the system and the internal
	energy of system increases. Also, when work is done by the system
	w _{ad} is positive and internal energy of the system decreases.
	b) wad is negative when work is done on the system and the internal
	energy of system decreases. Also, when work is done by the system w _{ad} is positive and internal energy of the system increases.
	c) w _{ad} is positive when work is done on the system and the interna
	energy of system increases. Also, when work is done by the system
	w_{ad} is negative and internal energy of the system decreases.
	d) W_{ad} is positive when work is done on the system and the internal
	energy of system decreases. Also, when work is done by the system
	w _{ad} is negative and internal energy of the system increases.
Q4.	Which of the following is not an extensive property?
	a) density b) mass
	c) volume d) internal energy
Q5.	Identify the correct statement about free expansion.
	a) $p_{ex} = 0$
	b) No work is done during free expansion of an ideal gas if the process i
	reversible.
	c) No work is done during free expansion of an ideal gas if the process i
	irreversible.
	d) All are correct.
Q6.	The enthalpies of all elements in their standard states are:
	a) unity b) zero c) < 0 d) different for each element
Q7.	For the reaction, $Br_{2(l)} \rightarrow 2Br_{(g)}$, what are the signs of ΔH and ΔS_{system} ?
	a) Both ΔH and ΔS_{system} are positive
	b) Both ΔH and ΔS_{system} are negative
	c) ΔH is negative and ΔS_{system} is positive
	d) ΔH is positive and ΔS_{system} is negative

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- Q8. Which equation shows the standard enthalpy change of formation of sodium chloride?
 - a) $Na(s) + \frac{1}{2}Cl_2(g) \rightarrow NaCl(s)$
 - b) $2Na(s) + Cl_2(g) \rightarrow 2NaCl(s)$
 - c) $Na(g) + Cl(g) \rightarrow NaCl(s)$
 - d) $Na^+(g) + Cl^-(g) \rightarrow NaCl(s)$

ASSERTION REASON TYPE

Q9. **Assertion (A):** If both ΔH and ΔS_{sys} are positive, then the reaction will be spontaneous at high temperature.

Reason (R): All processes with positive entropy change of system are spontaneous.

- a) Both Assertion and Reason are correct statements, and Reason is the correct explanation of the Assertion.
- b) Both Assertion and Reason are correct statements, but Reason is not the correct explanation of the Assertion.
- c) Assertion is correct but Reason is wrong statement.
- d) Assertion is wrong but Reason is correct statement.
- Q10. Assertion (A): The process of atomization is always exothermic.

Reason (R): Energy is absorbed during atomisation.

- a) Both Assertion and Reason are correct statements, and Reason is the correct explanation of the Assertion.
- b) Both Assertion and Reason are correct statements, but Reason is not the correct explanation of the Assertion.

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- c) Assertion is correct but Reason is wrong statement.
- d) Assertion is wrong but Reason is correct statement.
- Q11. Assertion (A): For melting of ice, ΔS_{sys} is positive.

Reason (R): During the process of melting of ice, disorder of particles increases.

- a) Both Assertion and Reason are correct statements, and Reason is the correct explanation of the Assertion.
- b) Both Assertion and Reason are correct statements, but Reason is not the correct explanation of the Assertion.
- c) Assertion is correct but Reason is wrong statement.
- d) Assertion is wrong but Reason is correct statement.

Read the given passage and answer the questions that follow:

In a chemical reaction, reactants are converted into products. The enthalpy change accompanying a reaction is called the reaction enthalpy. Enthalpy change is a very useful quantity. Knowledge of this quantity is required when one needs to plan the heating or cooling required to maintain an industrial chemical reaction at constant temperature. Enthalpy of a reaction depends on the conditions under which a reaction is carried out.



- Q12. Define Standard enthalpy of formation.
- Q13. Write an equation for the Standard enthalpy of formation of water.
- Q14. Calculate the standard enthalpy change of combustion of 2-Methylpropan-2-ol using the data given in the table.

Compound	$\Delta_{\rm f} {\sf H}^{\theta}$ (kJmol ⁻¹)
2-Methylpropan-2-ol	- 359
carbon dioxide	-394
water	-286

Question – Answer Type:

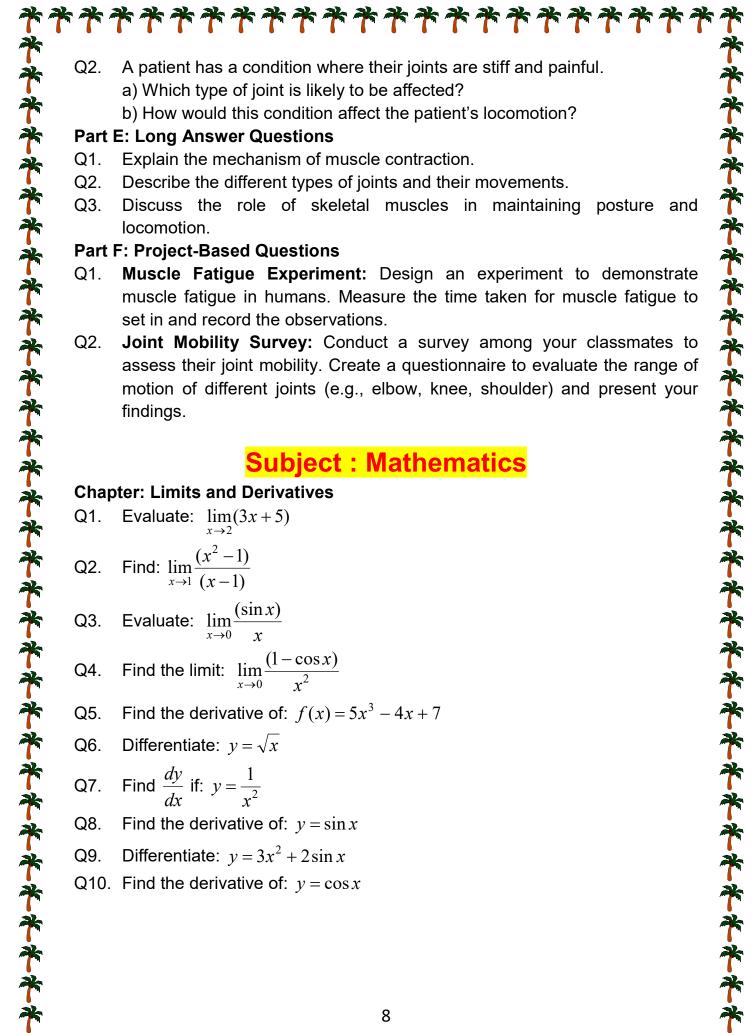
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- Q15. In a process 700 J of heat is absorbed by a system and 390 J of work is done by the system. Find ΔU .
- Q16. State first law of thermodynamics. Write the mathematical expression.
- Q17. Calculate the Enthalpy of solution of NaCl using the following data: (Lattice enthalpy of NaCl = + 788 kJ mol⁻¹, Enthalpy of hydration for sodium and chloride ions are –406 and –378 kJ mol⁻¹ respectively).
- Q18. The enthalpy change for a reaction $N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$ is -4.0 kJ mol⁻¹ at 300K. Calculate the value of ΔU . (R = 8.314 J K⁻¹ mol⁻¹)
- Q19. Give two examples each of the groups exhibiting –I and +I effect when attached to a chain of carbon atoms.
- Q20. A tertiary butyl carbocation is more stable than isobutyl carbocation. Justify.

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- Q21. Write resonance structures of CH₂=CH–CHO. Indicate relative stability of the contributing structures.
- Q22. Inductive effect is of permanent nature while electromeric effect is only temporary. Explain.
- Q23. Find the error and write the correct IUPAC names of
 - a) 1,6-Hexadiene
 - b) 2-Ethyl-2-pentene
- Q24. What do you understand by +R and -R effect?

*************** Subject: Biology **Locomotion and Movement Worksheet** Part A: Multiple Choice Questions Which of the following is the primary function of skeletal muscles? b) Respiration a) Digestion c) Locomotion d) Circulation Q2. What is the term for the movement of bones around a joint? a) Gliding b) Rotation c) Flexion d) Extension Q3. Which type of muscle is responsible for involuntary movements? a) Skeletal muscle b) Smooth muscle c) Cardiac muscle d) Both b and c Part B: Assertion and Reason Questions Assertion (A): Locomotion is possible due to the coordinated movement of bones and muscles. Reason (R): Skeletal muscles are attached to bones via tendons. a) Both assertion and reason are true, and reason is the correct explanation. b) Both assertion and reason are true, but reason is not the correct explanation. c) Assertion is true, but reason is false. d) Both assertion and reason are false. Q2. **Assertion (A):** Smooth muscles are responsible for peristalsis. **Reason (R):** Smooth muscles are involuntary muscles. a) Both assertion and reason are true, and reason is the correct explanation. b) Both assertion and reason are true, but reason is not the correct explanation. c) Assertion is true, but reason is false. d) Both assertion and reason are false. **Part C: Short Answer Questions** Q1. What is the difference between locomotion and movement? Q2. Describe the structure of a skeletal muscle. Q3. What is the role of joints in locomotion? Part D: Case-Based Study Questions Q1. A person is unable to move their arm after a fall. The doctor suspects a muscle injury. a) Which type of muscle is likely to be injured? b) How would the injury affect the person's movement?



Q2. A patient has a condition where their joints are stiff and painful.

- a) Which type of joint is likely to be affected?
- b) How would this condition affect the patient's locomotion?

Part E: Long Answer Questions

- Q1. Explain the mechanism of muscle contraction.
- Q2. Describe the different types of joints and their movements.
- Q3. Discuss the role of skeletal muscles in maintaining posture and locomotion.

Part F: Project-Based Questions

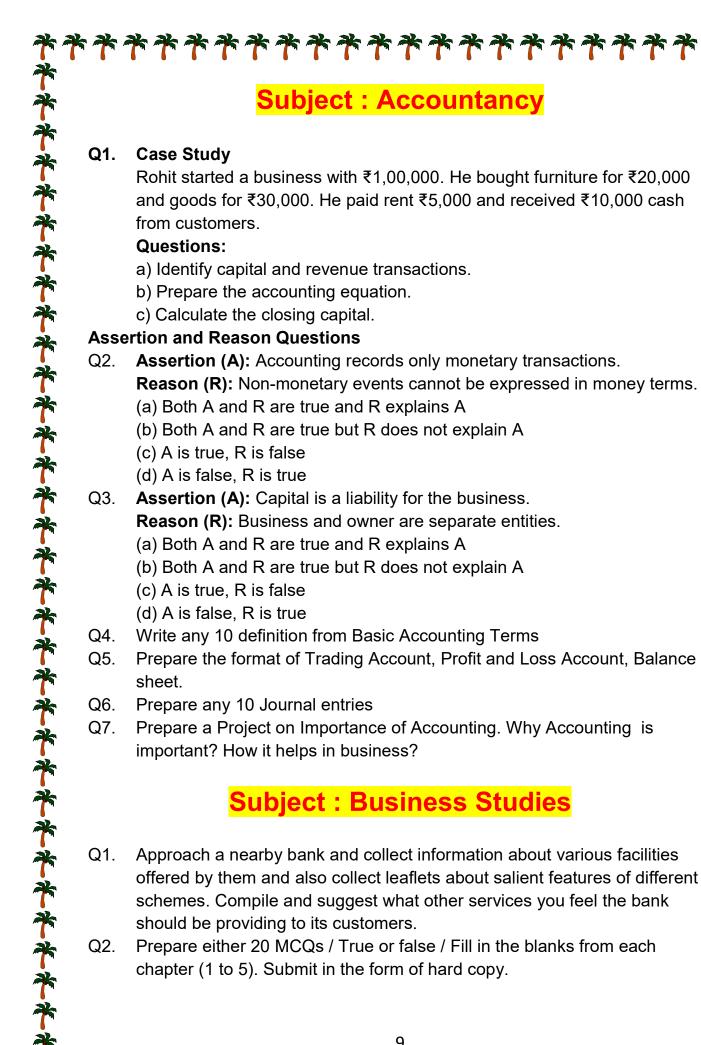
- Q1. Muscle Fatigue Experiment: Design an experiment to demonstrate muscle fatigue in humans. Measure the time taken for muscle fatigue to set in and record the observations.
- Q2. Joint Mobility Survey: Conduct a survey among your classmates to assess their joint mobility. Create a questionnaire to evaluate the range of motion of different joints (e.g., elbow, knee, shoulder) and present your findings.

Subject: Mathematics

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Chapter: Limits and Derivatives

- Q1. Evaluate: $\lim(3x+5)$
- Find: $\lim_{x \to 1} \frac{(x^2 1)}{(x 1)}$ Q2.
- Evaluate: $\lim \frac{(\sin x)}{}$ Q3.
- Find the limit: $\lim_{x\to 0} \frac{(1-\cos x)}{x^2}$ Q4.
- Find the derivative of: $f(x) = 5x^3 4x + 7$ Q5.
- Differentiate: $v = \sqrt{x}$ Q6.
- Find $\frac{dy}{dx}$ if: $y = \frac{1}{x^2}$ Q7.
- Find the derivative of: $y = \sin x$ Q8.
- Differentiate: $y = 3x^2 + 2\sin x$ Q9.
- Q10. Find the derivative of: $y = \cos x$



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*********** 予书子子子子子子子子子子子子子子子子子子子子子子子子子子子子 Subject: Economics <u>_</u> ************************** A producer is said to be in equilibrium when: Q1. a) MC = MRb) TC = TRd) MP = APc) AC = ARQ2. Under perfect competition, marginal revenue is: a) greater than price b) less than price d) zero c) equal to price Q3. The condition for producer's equilibrium under MR–MC approach is: a) MC = ACb) MR = ARc) MR = MC d) TR = TCQ4. Producer's equilibrium can be achieved at: a) maximum cost b) minimum revenue c) maximum profit d) zero output Q5. In the case of perfect competition, the demand curve of a firm is: a) downward sloping b) upward sloping c) vertical d) horizontal Q6. Explain producer's equilibrium with the help of the MR–MC approach. Q7. Distinguish between marginal revenue and average revenue. Q8. State the condition for producer's equilibrium. Subject: History Q1. Why were Italian towns the first experience the ideas of humanism? Q2. Describe the progress of sculpture in the 15th Century in Europe. Q3. Why were Tribals not greedy to control their land? Q4. Write short note on expansion of Australia's economy. Q5. Write a short note on shogun period. Q6. What was the most important accomplishment of the Meiji dynasty? Q7. Prepare a critical report on first noble of Japan written by 'Fujiwara no Kamatari' mention point on political system, Social System and cultural System of Japan. Q8. Visit to nearby museum or gallery study a indigenous culture and prepare report on the life style of indigenous peoples. Q9. Ready your project and prepare a viva. Q10. On the political map of the world mark these countries: Italy, Britain, Japan, China, Australia and New Zealand. Q11. Paste a picture of different food eat in China and Japan, write on it also. Note- write this home work on separate file. 10



Subject: Political Science

Instructions:

- 1. All students must complete the following three activities and compile them neatly in a project file.
- 2. This work is mandatory for the internal assessment.

Submission Guidelines:

Medium: Handwritten on A4 size sheets.

Resource: Use your NCERT textbook as the primary reference.

Deadline: To be submitted on the day the school reopens.

Activity 1: The Legislature

Task: "The Law-Making Journey"

- **A.** Flowchart: Draw a detailed, step-by-step flowchart showing how a Bill becomes an Act in the Indian Parliament (from the First Reading to the President's Assent).
- **B.** Formal Letter: Write a 150-word letter to the Speaker of the Lok Sabha proposing one new law you believe is essential for modern India. Explain your reasons clearly.

Activity 2: The Judiciary

Task: "Structure and Protection"

A. The Court Pyramid: Draw a pyramid representing the hierarchy of the Indian Courts. Label the Supreme Court, High Courts, and Subordinate Courts.

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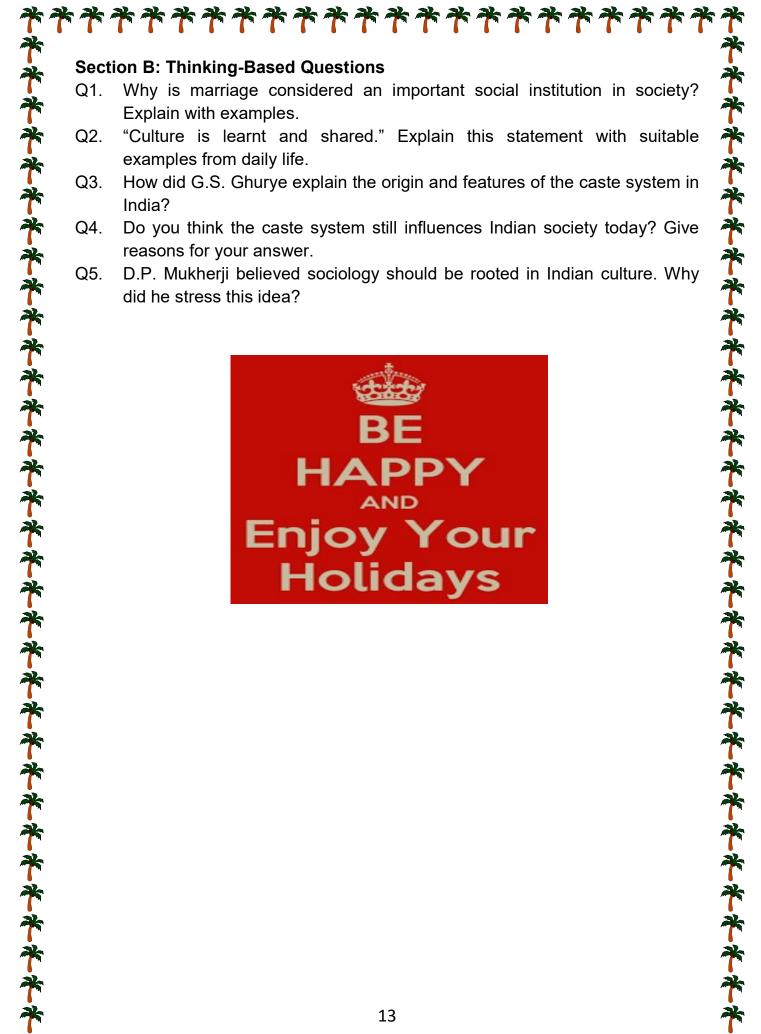
B. PIL Analysis: Write a short note (100 words) on the importance of Public Interest Litigation (PIL). List two ways in which a PIL helps the common citizen get justice.

Activity 3: Federalism

Task: "Division of Powers"

- **A.** The Three-List Diagram: Create a Venn Diagram representing the Constitutional division of subjects. Correctly categorize 5 subjects each for the Union List, State List, and Concurrent List.
- **B.** Conceptual Note: Explain the term "Residuary Powers" and state which level of government holds these powers in India. Provide one example of a modern subject (like Information Technology) that falls under this category.

*************** <u>*</u>********************** Subject: Sociology Instructions: Read the chapters carefully from NCERT. Answer all questions neatly in your class notebook. MCQs to be written with correct option only. Thinking-based questions to be answered in 80–120 words. Section A: Multiple Choice Questions (MCQs) Q1. Marriage is best defined as a a) Social contract b) Biological relationship c) Social institution d) Legal agreement Q2. Which of the following is NOT a type of marriage? b) Polygamy a) Monogamy c) Polyandry d) Endogamy Q3. Culture includes a) Only traditions b) Only religion c) Material and non-material elements d) Only customs Q4. Which one is a non-material aspect of culture? a) Tools b) Clothing c) Values d) Technology G.S. Ghurye is associated with the study of Q5. a) Economy b) Religion c) Caste system d) Family Q6. According to G.S. Ghurye, caste is closely linked with b) Occupation a) Education c) Politics d) Industry Q7. D.P. Mukherji emphasized the importance of b) Indian tradition and culture a) Western sociology c) Industrial growth d) Political institutions Which feature is central to the caste system? Q8. a) Equality b) Social mobility c) Hierarchy d) Democracy Q9. **Endogamy means** a) Marriage outside one's group b) Marriage within one's group c) Only a d) Inter-caste marriage Q10. Culture is a) Inherited biologically b) Learnt socially c) Fixed forever d) Same everywhere 12



Section B: Thinking-Based Questions

- Why is marriage considered an important social institution in society? Q1. Explain with examples.
- "Culture is learnt and shared." Explain this statement with suitable Q2. examples from daily life.
- How did G.S. Ghurye explain the origin and features of the caste system in Q3. India?
- Q4. Do you think the caste system still influences Indian society today? Give reasons for your answer.
- Q5. D.P. Mukherji believed sociology should be rooted in Indian culture. Why did he stress this idea?



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