

SGJ DAV SEN. SEC. PUBLIC SCHOOL, HARIPURA
Class – 11th (All Subjects Assignment)
Date – 03.09.2025

History-

Instructions: Write these questions in your notebook.

Answer the following questions in 100-150 words.

You have to submit this work after the opening of school to your subject teacher.

1. "The army in the early Roman Empire was very powerful." Describe the important role of the army in three points. 3 Marks
2. While moving narratives can be transmitted orally, science requires written texts that generations of scholars can read and build upon. What is the legacy of Mesopotamia to the world? 3 Marks
3. "Cathedral town was the main attraction of medieval Europe", Elaborate the concept of Cathedral town? 3 Marks
4. A lord had his own manor-house. He also controlled villages some lords-controlled hundreds of villages where peasants lived. Write the importance of manor-house in the medieval period. 3 Marks
5. Write the condition of the Mongols after Genghis Khan in three points. 3 Marks

Political Science-

- Q1. Highlights the different types of bills introduced in parliament. 4 marks
- Q2. Explain the importance of parliamentary committees in the legislative process and why they are called miniature legislatures. 6 marks
- Q3. Why can the Lok sabha control the executive more effectively than the rajya sabha can? 4 marks

Geography-

The students will complete the previously given work and revise it well.

Economics-

Instructions:

Answer all the questions neatly in your Economics Notebook.

1. What is meant by unitary elastic demand state 3 factors that affects price elasticity of demand
2. When is the demand of a commodity said to be inelastic?
3. Give the formula of measuring elasticity of demand according to percentage method.
4. Demand for product X is perfectly elastic. What will be the change in demand if price falls from ₹ 10 per unit to ₹ 5 per unit
5. What happens to total expenditure on a commodity when its price falls and its demand is price elastic?
6. Demand increases by 10 units when the price decreases by ₹2. As a result, demand increases to 100 units and price decreases to ₹8. Find out the elasticity of demand.
7. Price elasticity of demand for a commodity is unity and a household demands 50 units of it when its price is ₹2. At what price the household demands 45 units of the commodity?
8. A household increases its demand for a commodity from 40 units to 50 units when its price fall by 10%. What is the price elasticity of demand for the commodity?
9. A consumer buys 50 units off a good at a price of ₹10 per unit. When its price falls to ₹5 per unit, he buys 100 units. Find out price elasticity of demand by the total expenditure method.

Psychology-

- Q.1 Define psychological research. Why is it important in psychology? (4 Marks)
- Q.2 Differentiate between basic research and applied research with examples. (4 Marks)
- Q.3 What is the difference between the experimental method and the correlational method of research? (4 Marks)

Maths-

All question are compulsory and solve on fair notebook.

Section A – 2 Marks

1. [Ch 1, Ex 1.2 Q7] If $A = \{1, 2, 3, 4\}$ and $B = \{2, 4, 6, 8\}$, find $A \cup B$, $A \cap B$, and $A - B$.
2. [Ch 2, Ex 2.1 Q2] If $f: \mathbb{R} \rightarrow \mathbb{R}$ is defined by $f(x) = 3x + 2$, find $f(2)$ and $f(-1)$.
3. [Ch 3, Ex 3.3 Q5] Find the general solution of $\sin 2x = \sqrt{3} \cos x$.
4. [Ch 3, Misc Ex Q9] Simplify: $(\sin 3\theta + \sin \theta)/(\cos 3\theta + \cos \theta)$.

5. [Ch 5, Ex 5.2 Q1] Solve for x : $z^2 + (3 - 2i)z + (2 - i) = 0$.

Section B – 3 Marks

6. [Ch 1, Ex 1.5 Q8] If $A = \{x \in \mathbb{N} : x^2 - 5x + 6 = 0\}$, list all subsets of A and find their number.

7. [Ch 2, Ex 2.2 Q6] Show that the function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = x^3$ is one-one but not onto.

8. [Ch 3, Ex 3.4 Q6] Find the exact value of $\sin 75^\circ + \sin 15^\circ$.

9. [Ch 3, Ex 3.4 Q15] Solve: $\cos x + \cos 3x + \cos 5x = 0$ for $0 < x < \pi$.

10. [Ch 5, Ex 5.2 Q10] Find all values of x for which $|x - 2 + i| = |x + 3 - 4i|$.

Section C – 5 Marks

11. [Ch 1, Misc Ex Q16] If $U = \{1, 2, 3, \dots, 20\}$, $A = \{\text{multiples of } 2\}$, $B = \{\text{multiples of } 3\}$, and $C = \{\text{multiples of } 5\}$:

(i) Find $A \cup B \cup C$

(ii) Find $A \cap (B \cup C)$

(iii) Verify $(A \cup B) \cap C = (A \cap C) \cup (B \cap C)$.

12. [Ch 2, Misc Ex Q7] The function $f(x) = \sqrt{9 - x^2}$ is given. Find the domain and range of f . Also, check whether the function is one-one and onto.

13. [Ch 3, Ex 3.4 Q14] Solve: $\cos 3x + \cos x = 0$ for $0 \leq x \leq 2\pi$.

14. [Ch 3, Misc Ex Q22] Solve: $\tan x + \tan 2x + \tan 3x = \tan x \cdot \tan 2x \cdot \tan 3x$ for $0 < x < \pi$.

15. [Ch 5, Misc Ex Q14] Solve: $x^2 + (2 + 3i)x + (1 + 2i) = 0$ and express the roots in $a + ib$ form.

Physics-

1. A thief jumps from the roof of a house with a box of weight w on his head. What will be the weight of the box as experienced by the thief during jump? (3 Marks)

2. If force is acting on a moving body perpendicular to the direction of motion, then what will be its effect on the speed and direction of the body? (3 Marks)

3. A train runs along an unbanked circular bend of radius 30 m at a speed of 54 km/h. The mass of the train is 106 kg. What provides the necessary centripetal force required for this purpose? The engine or the rails? What is the angle of banking required to prevent wearing out of the rail? (3 Marks)

4. How is centripetal force provided in case of the following? (3 Marks)

(i) Motion of planet around the sun,

(ii) Motion of moon around the earth.

(iii) Motion of an electron around the nucleus in an atom.

Chemistry-

Instructions-(i) Solve all the questions on notebook.

(ii) Each question carry 3 marks each.

1. (a) How many sub-shells are associated with the $n = 4$?

(b) How many electrons would be present in the sub-shells having an m_s value of $-1/2$ for $n = 4$.

2. Yellow light emitted from a sodium lamp has a wavelength (λ) of 580 nm. Calculate the frequency (ν) and wave number ($\bar{\nu}$) of yellow light.

3. Calculate the energy of each of the photons which

(i) correspond to light of frequency 3×10^{15} Hz

(ii) have wavelength of 0.50 Å.

4. What is the maximum number of emission lines when the excited electron of a hydrogen atom in $n = 6$ drops to the ground state?

Biology-

1. Bryophytes are called “amphibians of the plant kingdom.” Justify this statement with examples (3 Marks)

2. Compare and contrast algae and fungi as members of different kingdoms but both show a thallus-like body organization. (3 Marks)

3. Why do gymnosperms show a phenomenon similar to “double fertilization” but are considered different from angiosperms in this respect? (3 Marks)

4. If algae were to disappear from aquatic ecosystems, what changes would occur in the food chain and oxygen cycle? (3 Marks)

5. Explain how the transition of plants from water to land led to the development of new structural features. Give suitable examples. (3 Marks)
6. Heterospory is considered an important step in plant evolution. Discuss its significance. (5 Marks)
7. Why are vascular tissues absent in bryophytes but present in pteridophytes? How did this advancement help pteridophytes colonize land? (5 Marks)

Physical Education-

1. What do you mean by Disability ? (3 Marks)
2. What is the aim of physical education ? (3 Marks)
3. What are the essentials for a healthy life style? (3 Marks)

Commercial Arts-

Instructions- Long answer type questions. Answer for these questions is expected in more than 200 words.

- Q-1. Explain the main characteristics of Ajanta paintings. (6 marks)
- Q-2. Give a brief note on Indus valley civilization. (6 marks)
- Q-3. Explain the subject matter and features of Pre-historic rock paintings. (6 marks)

Business Studies-

- Q.1 Explain the difference between a sole proprietorship and a private limited company. (4 Marks)
- Q.2 What is the role of public sector enterprises in India's economic development? (4 Marks)
- Q.3 How do multinational corporations (MNCs) influence local businesses in emerging economies? (4 Marks)

Accountancy-

Instructions:

Answer all the questions neatly in your Accountancy Notebook.

1. Use Accounting equation to show the effect of the above transactions on various Assets, Liabilities & capital.
 - i. Commenced business with cash ₹ 5,00,000.
 - ii. Furniture purchased ₹ 70,000.
 - iii. Purchased goods for cash ₹ 60,000 & on credit ₹80,000.
 - iv. Sold goods for cash ₹ 1,50,000 costing ₹ 70,000.
 - v. Rent paid ₹ 5,000
 - vi. Goods withdrawn for personal use amounting ₹ 5,000.
2. Prepare Accounting equation from the following
 - a. Commenced business with cash ₹ 2,00,000 and stock ₹ 1,00,000
 - b. Computer purchased ₹ 70,000.
 - c. Purchased goods from Hari ₹80,000.
 - d. Sold goods to Pari for ₹ 70,000.
 - e. Salaries outstanding ₹ 5,000
 - f. Goods given as charity ₹ 5,000.
3. Opening capital of Mr. Harshit is ₹ 3,00,000 and closing capital is ₹ 2,50,000. He incurred losses of ₹8,000 during the year. He withdrew ₹ 7,000 for his personal use. Calculate the amount of additional capital introduced by him during the year.
4. Mr. David commenced business on April 1,2024 with a capital of ₹ 5,00,000. On March 31,2025 his assets were ₹ 6,50,000 and liabilities amounting ₹50,000. Mr. David withdrew ₹ 10,000 during the year for his personal use and introduce ₹ 40,000 as additional capital. Calculate the Profit/ loss earned by him during the year.
5. Mr. Edwin commenced business on April 1,2024 with a capital of ₹ 4,00,000. During the year he took a loan of ₹ 1,00,000 from his friend. On March 31,2025 his assets were ₹ 8,00,000. Mr. David withdrew ₹ 20,000 during the year for his personal use and introduce ₹ 1,20,000 as additional capital. Calculate the Profit/ loss earned by him during the year.

Punjabi-

ਕੁੱਲ ਅੰਕ- 10

ਅਖਾਣ -

1ਉੱਠ ਤਾਂ ਉੱਠ ਨਹੀਂ ਰੇਤੇ ਦੀ ਮੁੱਠ (ਕੰਮ ਨਾ ਕਰਨ ਵਾਲਾ ਵਿਅਕਤੀ ਬੇਕਾਰ ਹੁੰਦਾ ਹੈ) ਜਦ ਵਿਅਕਤੀ ਕੰਮ ਕਰਨ ਨੂੰ ਰਹਿ ਜਾਂਦਾ ਹੈ ਤਾਂ ਉਸਨੂੰ ਕੋਈ ਨਹੀਂ ਪਹਿਛਾਣਦਾ ਅਥਵਾ ਉਸਨੂੰ ਬੇਕਾਰ ਸਮਝਿਆ ਜਾਂਦਾ ਹੈ ਠੀਕ ਕਿਹਾ ਗਿਆ ਹੈ ਉੱਠੇ ਤਾਂ ਉੱਠ ਨਹੀਂ ਰੇਤੇ ਦੀ ਮੁੱਠ

2 ਦੇ ਅਸਰਫੀਆਂ ਦੀ ਲੁੱਟ ਤੇ ਕੋਲਿਆਂ ਤੇ ਮੋਹਰਾਂ (ਜਦ ਕੋਈ ਕੀਮਤੀ ਚੀਜ਼ ਨੂੰ ਨਾ ਸੰਭਾਲੇ ਪਰ ਮਾੜੀ ਚੀਜ਼ ਦਾ ਬਹੁਤ ਖਿਆਲ ਰੱਖੇ) ਜੀਤੇ ਦੀ ਆਦਤ ਅਜਿਹੀ ਹੈ ਕਿ ਉਹ ਸੁੱਟਣ ਵਾਲੀਆਂ ਚੀਜ਼ਾਂ ਨੂੰ ਤਾਂ ਸਾਂਭ ਸਾਂਭ ਕੇ ਰੱਖਦੀ ਹੈ ਪਰ ਕੀਮਤੀ ਚੀਜ਼ਾਂ ਦਾ ਖਿਆਲ ਨਹੀਂ ਕਰਦੀ ਉਹਦਾ ਤਾਂ ਇਹ ਹਿਸਾਬ ਹੈ ਅਸਰਫੀਆਂ ਦੀ ਲੁੱਟ ਤੇ ਕੋਲਿਆਂ ਦੀਆਂ ਮੋਹਰਾਂ

3 ਅੱਗੇ ਸੱਪ ਤੇ ਪਿੱਛੇ ਸ਼ੀਹ (ਜਦ ਦੁਚਿਤੀ ਵਿੱਚ ਪਏ ਵਿਅਕਤੀ ਦੀਆਂ ਲਈ ਦੋਨਾਂ ਹਾਲਾਤਾਂ ਵਿੱਚ ਨੁਕਸਾਨ ਹੋਵੇ)ਪੁੱਤਰ ਦਸਵੀਂ ਜਮਾਤ ਵਿੱਚੋਂ ਦੂਜੀ ਵਾਰ ਫੇਲ ਹੋਏ ਆਪਣੇ ਮੁੰਡੇ ਨੂੰ ਪੜ੍ਹਨੋਂ ਹਟਾ ਕੇ ਕਰਤਾਰਾ ਉਸ ਨੂੰ ਕਿਸੇ ਕੰਮ ਵਿੱਚ ਪਾਉਣਾ ਚਾਹੁੰਦਾ ਸੀ ਪਰ ਮੁੰਡਾ ਕੋਈ ਕੰਮ ਸਿੱਖਣ ਲਈ ਤਿਆਰ ਨਹੀਂ ਸੀ ਕਰਤਾਰਾ ਦੁਚਿਤੀ ਵਿੱਚ ਸੀ ਕਿ ਉਹ ਮੁੰਡੇ ਨੂੰ ਪੜ੍ਹਨੋਂ ਹਟਾ ਲਵੇ ਜਾਂ ਉਸੇ ਕਲਾਸ ਵਿੱਚ ਫਿਰ ਦਾਖਲ ਕਰਵਾ ਦੇਵੇ ਉਹਦੀ ਹਾਲਤ ਤਾਂ ਅੱਗੇ ਸੱਪ ਤੇ ਪਿੱਛੇ ਸ਼ੀਹ ਵਾਲੀ ਸੀ

4 ਆਦਰ ਤੇਰੀ ਚਾਦਰ ਨੂੰ ਬਹਿਣਾ ਤੇਰੇ ਗਹਿਣੇ ਨੂੰ (ਕਿਸੇ ਵਿਅਕਤੀ ਦੀ ਇੱਜਤ ਉਹਦੀ ਅਮੀਰੀ ਕਾਰਨ ਹੁੰਦੀ ਹੋਵੇ ਤਾਂ ਇਹ ਅਖਾਣ ਵਰਤੀ ਜਾਂਦੀ ਹੈ) ਪਹਿਲਾਂ ਤਾਂ ਜੰਤਰ ਦੀ ਹਾਲਤ ਇੰਨੀ ਮਾੜੀ ਸੀ ਕਿ ਉਹਨੂੰ ਕੋਈ ਪੁੱਛਦਾ ਤੱਕ ਨਹੀਂ ਸੀ ਪਰ ਜਦੋਂ ਤੋਂ ਉਹਦਾ ਮੁੰਡਾ ਜੱਜ ਲੱਗਿਆ ਹੈ ਉਹਦੀ ਤਾਂ ਹਾਲਤ ਹੀ ਬਦਲ ਗਈ ਹੈ ਹੁਣ ਪਿੰਡ ਵਿੱਚ ਸਾਰੇ ਉਸਦੀ ਇੱਜਤ ਕਰਦੇ ਹਨ ਇਸੇ ਲਈ ਤਾਂ ਕਿਹਾ ਜਾਂਦਾ ਹੈ ਆਦਰ ਤੇਰੀ ਚਾਦਰ ਨੂੰ ਬਹਿਣਾ ਤੇਰੇ ਗਹਿਣੇ ਨੂੰ

5 ਆਪੇ ਫਾਥੜੀਏ ਤੈਨੂੰ ਕੋਣ ਛੁਡਾਏ (ਇਹ ਅਖੌਤ ਉਸ ਸਮੇਂ ਵਰਤਦੇ ਹਨ ਜਦੋਂ ਕੋਈ ਆਪਣੇ ਹੀ ਚੁਣੇ ਹੋਏ ਰਾਹ ਤੇ ਐੱਖਾ ਹੋਵੇ) ਉਦੋਂ ਤਾਂ ਸਾਰਿਆਂ ਦੇ ਮਨQk ਵਿੱਚ ਕਰਨ ਤੇ ਵੀ ਉਸ ਧੋਖੇਬਾਜ਼ ਨਾਲ ਭਾਈਵਾਲੀ ਕੀਤੀ ਸੀ ਪਰ ਹੁਣ ਜਦ ਉਹ ਤੈਨੂੰ ਧੋਖਾ ਦੇ ਗਿਆ ਤਾਂ ਸਾਨੂੰ ਕੀ ਦੱਸਦਾ ਏ ਤੇਰਾ ਤਾਂ ਆਪੇ ਫਾਥੜੀਏ ਤੈਨੂੰ ਕੋਣ ਛੁਡਾਏ ਵਾਲਾ ਹਿਸਾਬ ਹੈ

English-

All questions are worth 2 marks each.

- Please provide a description of the three girls as they are depicted in the photograph.
- What specific aspects of the snapshot would elicit laughter from the poet's mother?
- What are the respective losses experienced by the poet's mother and the poet?
- Considering the poem's overall theme of loss, which particular emotion is most prominently conveyed?

Information Technology-

The students will complete the previously given work and revise it well.

FMM-

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| Q.1 Write the steps for Financial Statement Analysis. | (6 Marks) |
| Q.2 Create a report on the basis of financial statement analysis. | (6 Marks) |
| Q.3 Write in brief the key financial statements. | (6 Marks) |