

SGJ DAV SEN. SEC. PUBLIC SCHOOL, HARIPURA
Class – 12th (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. "Magadha was the most powerful Mahajan-pada". Examine the statement in three points. 3 Marks
2. "India had unique system of communication during the 14th century" Examine the statement made by Ibn Battuta. 3 Marks
3. Explain different social dimensions propounded by historians from the central episode of Draupadi's marriage in the Mahabharata. 3 Marks
4. Describe the Tirthankaras of Jainism. Discuss their main teachings about Jainism. 3 Marks
5. Explain any three similarities between the teaching of Guru Nanak Dev and Kabir. 3 Marks

Political Science-

- Q1. Analyse any four happenings during Gorbachev's period that led to the disintegration of the Soviet union. 4 marks
- Q2. Highlight any three positive and three negative features each of the Soviet system in the Soviet union. 6 marks
- Q3. Why are India's relations with Russia considered an important aspect of India's foreign policy? Explain. 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 are the instruments of monetary policy used by the central bank to control the money supply?
2. Explain the terms Cash Reserve Ratio (CRR) and Statutory Liquidity Ratio (SLR).
3. What are open market operations, and how do they affect the availability of credit?
4. How do changes in Bank Rate affect money supply in an economy? Explain.
5. Define money and describe the different types of money (e.g., fiat money, legal tender money, fiduciary money)

Maths-

- Do all the work in Fair Notebook day wise in neat and clean handwriting.

1. Show that the relation R in the set of real numbers defined as $R = \{(a, b) : a \leq b^2\}$ is neither reflexive nor symmetric nor transitive.
2. For what values of k is the function defined by $f(x) = \{x^2 - 25, \text{ when } x \neq 5$
 $k, \text{ when } x = 5$ continuous at $x = 5$.
3. If $y = (\sin x)^x + \sin^{-1} \sqrt{x}$, then find $\frac{dy}{dx}$.
4. Show that the function $f(x) = (x^2 - x + 1)$ is neither increasing nor decreasing on $(0, 1)$.
5. Solve the equations by matrix method
 $2x - 3y + 5z = 11$
 $3x + 2y - 4z = -5$
 $x + y - 2z = -3$.

Physics-

Every question contains 3 marks .

1. What is the magnitude of magnetic force per unit length on a wire carrying a current of 8 A and making an angle of 30° with the direction of a uniform magnetic field of 0.15 T?
2. A 3.0 cm wire carrying a current of 10 A is placed inside a solenoid perpendicular to its axis. The magnetic field inside the solenoid is given to be 0.27 T. What is the magnetic force on the wire?

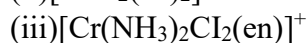
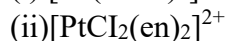
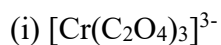
3. A short bar magnet placed with its axis at 30° with a uniform external magnetic field of 0.25 T experiences a torque of magnitude equal to 4.5×10^{-2} J. What is the magnitude of magnetic moment of the magnet ?
4. Draw the formula of magnetic field on the axis of circular current loop.

Chemistry-

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

(ii) Each question carries 3 marks each.

1. Draw the structures of optical isomers of



2. Draw figure to show the splitting of d-orbitals in an octahedral crystal field.

3. What is spectrochemical series? Explain the difference between a weak field ligand and a strong field ligand.

4. $[\text{Fe}(\text{CN})_6]^{4-}$ and $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$ are of different colours in dilute solutions. Why?

Biology-

1. Discuss the role of Darwin's finches in supporting the theory of natural selection. How did their beak variations influence survival and evolution? (5 Marks)

2. Explain the concept of Hardy-Weinberg equilibrium. How can factors like gene flow, genetic drift, and mutation disturb this equilibrium? Support with examples. (5 Marks)

3. Fossils are considered important evidence for evolution. Explain how transitional fossils (e.g., Archaeopteryx) establish links between different groups of organisms. (5 Marks)

4. "Industrial melanism is a classical case of natural selection." Explain with reference to the evolution of peppered moths. (5 Marks)

5. Differentiate between convergent evolution and divergent evolution. Give one example of each and explain how they support organic evolution. (5 marks)

6. Explain the significance of homologous and analogous organs in tracing evolutionary relationships. Why are vestigial organs also considered evidence of evolution? (5 Marks)

Physical Education-

1. Explain any five postural deformities in detail? (5 Marks)

2. How water is useful for us? Explain briefly ? (3 Marks)

3. What do you mean by single elimination Tournament ? (3 Marks)

Commercial Arts-

Instructions- Short answer type questions. Answer for these questions is expected in more than 100 words.

Q-1. What materials were used for painting in the Jain school? (2 marks)

Q-2. Who founded the Mughal dynasty in Indian and when? (2 marks)

Q-3. Explain Mughal art in Jahangir's regime. (3 marks)

Q-4. Describe the paintings of Mughal school in terms of the human values they portray. (3 marks)

Business Studies-

1. Case Study: (4 Marks)

A company named XYZ Ltd., which manufactures and sells luxury products, faces a significant decline in sales. The company's management team conducts a review and realizes that the country is going through an economic slowdown, with inflation rates increasing, and unemployment rising. The disposable income of their target customers has decreased, leading to reduced spending on non-essential luxury items.

The company's management decides to shift its focus towards more affordable products and starts researching ways to cut down on production costs while maintaining product quality. They also explore international markets where the economic conditions are better.

Questions:

1. Identify the component of the business environment affecting XYZ Ltd. and explain how it is influencing the company's operations.

2. What steps should XYZ Ltd. take to adapt to this economic change?

3. How could XYZ Ltd. utilize the opportunities available in international markets?

4. Discuss the role of government economic policies in mitigating such challenges for businesses.

Accountancy-

Instructions:

Answer all the questions neatly in your Accountancy Notebook.

Prepare Partner's Loan Account in the following situations

Situation VI:

A, B and C were partners sharing P&L in the ratio 5:3:2. B retired on 31st March, 2022 and his dues after adjusting Revaluation Gain/Loss, Reserves and Accumulated Profits/Losses and Goodwill treatment came out ₹12,00,000. He was being paid in three annual instalments, as ₹6,00,000 (including interest for first two instalments) and balance in third instalment together with Interest. First instalment being paid on 31st March, 2023.

Prepare B's Loan Account till it is finally closed.

Situation VII:

•A, B and C were partners sharing P&L in the ratio 5:3:2. B retired on 31st March, 2022 and his dues after adjusting Revaluation Gain/Loss, Reserves and Accumulated Profits/Losses and Goodwill treatment came out ₹12,00,000. He was being paid ₹ 5,00,000 and interest as first instalment on 31st March, 2023; ₹3,00,000 plus interest as second instalment on 31 March, 2024 and balance due with interest as third instalment on March 31, 2025.

Prepare B's Loan Account till it is finally closed.

Situation VIII:

A, B and C were partners sharing P&L in the ratio 5:3:2. B retired on 31st March, 2022 and his dues after adjusting Revaluation Gain/Loss, Reserves and Accumulated Profits/Losses and Goodwill treatment came out ₹12,00,000. He was being paid ₹ 5,00,000 (including interest) as first instalment on 31st March, 2023; ₹3,00,000 (including interest) as second instalment on 31 March, 2024 and balance due with interest as third instalment on March 31, 2025. Interest rate was to be provided @ 10% p.a.

Prepare B's Loan Account till it is finally closed.

Situation IX:

A, B and C were partners sharing P&L in the ratio 5:3:2. B retired on 31st March, 2022 and his dues after adjusting Revaluation Gain/Loss, Reserves and Accumulated Profits/Losses and Goodwill treatment came out ₹12,00,000. He was being paid ₹ 5,00,000 (including interest) as first instalment on 31st March, 2023; ₹3,00,000 and interest as second instalment on 31 March, 2024 and balance due with interest as third instalment on March 31, 2025. Interest rate was to be provided @ 10% p.a.

Prepare B's Loan Account till it is finally closed.

Punjabi-

ਕੁੱਲ ਅੰਕ- 10

ਅਖਾਣ -

1.ਆਪੇ ਮੈਂ ਰੱਜੀ ਪੁੱਜੀ ਆਪੇ ਮੇਰੇ ਬੱਚੇ ਦੀ (ਆਪਣੇ ਹੀ ਮੂੰਹੋਂ ਆਪਣੀਆਂ ਸਿਫਤਾਂ ਕਰਨ ਵਾਲੇ ਨੂੰ ਕਹਿੰਦੇ ਹਨ)ਜਗਜੀਤ ਸਿੰਘ ਤਾਂ ਹਰ ਵੇਲੇ ਆਪਣੀਆਂ ਅਤੇ ਆਪਣੇ ਬੱਚਿਆਂ ਦੀਆਂ ਹੀ ਸਿਫਤਾਂ ਕਰਦਾ ਰਹਿੰਦਾ ਹੈ ਉਸ ਦਾ ਤਾਂ ਆਪੇ ਮੈਂ ਰੱਜੀ ਪੁੱਜੀ ਆਪੇ ਮੇਰੇ ਬੱਚੇ ਜੀਣ ਵਾਲਾ ਹਿਸਾਬ ਹੈ

2.ਆਪਣੇ ਹੱਥੀ ਆਪਣਾ ਆਪੇ ਹੀ ਕਾਜ ਸਵਾਰੀਐ (ਆਪਣਾ ਕੰਮ ਆਪ ਕਰਨਾ ਚਾਹੀਦਾ ਹੈ) ਦੂਸਰਿਆਂ ਦੇ ਆਸਰੇ ਰਹਿਣ ਦੀ ਥਾਂ ਸਾਨੂੰ ਆਪਣਾ ਕੰਮ ਆਪ ਕਰਨਾ ਚਾਹੀਦਾ ਹੈ ਸਿਆਣੇ ਠੀਕ ਹੀ ਤਾਂ ਕਹਿੰਦੇ ਹਨ ਆਪਣੇ ਹੱਥੀ ਆਪਣਾ ਆਪੇ ਹੀ ਕਾਜ ਸਵਾਰੀਐ

3.ਆਰੀ ਨੂੰ ਇੱਕ ਪਾਸੇ ਦੰਦੇ ਜਹਾਨ ਨੂੰ ਦੇਹੀ ਪਾਸੀ (ਜਦ ਇਹ ਦੱਸਣਾ ਹੋਵੇ ਕਿ ਲੋਕ ਤਾਂ ਨਾ ਚੰਗੇ ਨੂੰ ਜਿਉਣ ਦਿੰਦੇ ਹਨ ਅਤੇ ਨਾ ਮਾੜੇ ਬੰਦੇ ਨੂੰ ਉਹਨਾਂ ਨੂੰ ਤਾਂ ਵਿਰੋਧ ਕਰਨਾ ਹੀ ਹੁੰਦਾ ਹੈ) ਲੋਕ ਤਾਂ ਕਿਸੇ ਪਾਸੇ ਵੀ ਜਿਉਣ ਨਹੀਂ ਦਿੰਦੇ ਜੇ ਕੰਮ ਕਰ ਲਓ ਤਾਂ ਕਹਿੰਦੇ ਨੇ ਕਿ ਕਿਉਂ ਕੀਤਾ ਹੈ ਜੇ ਨਾ ਕਰੇ ਤਾਂ ਕਹਿੰਦੇ ਨੇ ਕਿਉਂ ਨਹੀਂ ਕੀਤਾ ਇਸ ਲਈ ਤਾਂ ਕਹਿੰਦੇ ਹਨ ਕਿ ਆਰੀ ਨੂੰ ਇੱਕ ਪਾਸੇ ਦਿੰਦੇ ਜਹਾਨ ਨੂੰ ਦੇਹੀ ਪਾਸੇ

4.ਇੱਕ ਚੁੱਪ ਸੌ ਸੁੱਖ (ਡਾਢੇ ਅੱਗੇ ਚੁੱਪ ਰਹਿਣਾ ਹੀ ਚੰਗਾ) ਮਨਜੀਤ ਆਪਣੇ ਲੜਾਕੇ ਗਵਾਂਢੀ ਨਾਲ ਬਹਿਸ ਵਿੱਚ ਨਹੀਂ ਪੈਂਦਾ ਉਹ ਜਾਣਦਾ ਹੈ ਇੱਕ ਚੁੱਪ ਸੁੱਖ

5.ਸੱਚੇ ਮਾਰਗ ਚਲਦਿਆਂ ਉਸਤਤ ਕਰੇ ਜਹਾਨ (ਸੱਚ ਦਾ ਪੱਲਾ ਫੜਨ ਵਾਲੇ ਜਾਂ ਚੰਗਾ ਕੰਮ ਕਰਨ ਵਾਲੇ ਦੀ ਹਮੇਸ਼ਾ ਵਡਿਆਈ ਹੁੰਦੀ ਹੈ) ਸਾਡੇ ਪਿੰਡ ਦਾ ਸਰਪੰਚ ਫੈਸਲਾ ਕਰਨ ਲੱਗਿਆ ਕਦੇ ਵੀ ਸੱਚ ਦਾ ਪੱਲਾ ਨਹੀਂ ਛੱਡਦਾ ਉਹ ਸੱਚੇ ਵਿਅਕਤੀ ਦੀ ਮਦਦ ਕਰਦਾ ਹੈ ਇਸੇ ਲਈ ਲੋਕ ਉਸਦੀਆਂ ਸਿਫਤਾਂ ਕਰਦੇ ਹਨ ਠੀਕ ਹੀ ਕਿਹਾ ਗਿਆ ਹੈ ਸੱਚੇ ਮਾਰਗ ਚਲਦਿਆਂ ਉਸਤਤ ਕਰੇ ਜਹਾਨ

English-

- Q1 Discuss the role of fate and superstition in shaping the events of "The Tiger King". 5 Marks
- Q2 Dr Sadao was compelled by his duty as a doctor to help the enemy soldier. What made Hana, his wife sympathetic with him in the face of open defiance from the domestic staff? 5 Marks
- Q3 In the story "The Third Level ",reality and fantasy are interwoven. Justify. 5 Marks

Information Technology-

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

FMM-

- Q.1 Explain the structure of financial markets in India. How are capital markets and money markets organized? (6 Marks)
- Q.2 Discuss the role and significance of the secondary market in promoting liquidity and price discovery. (6 Marks)
- Q.3 Explain the concept of capital formation. How do financial markets contribute to it? (6 Marks)