

SGJ DAV SEN. SEC. PUBLIC SCHOOL, HARIPURA
Class – 12th (All Subjects Assignment)
Date – 02.09.2025

History-

Instructions: Write these questions in your notebook.

Answer the following questions in 300-350 words.

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

1. "Amravati was discovered before Sanchi yet it had lost its glory and was an insignificant little mound." Justify why Sanchi survived and Amravati did not? 8 Marks

2. "Ibn Battuta and his excitement of the unfamiliar about this subcontinent." Support the statement with your views in eight points. 8 Marks

3. "Kabir (c. fourteenth-fifteenth centuries) is perhaps one of the most outstanding examples of a poet-saint who emerged within this context." Explain your views about this statement. 8 Marks

Political Science-

Q1. Describe any three international challenging issues that can only be dealt with when all the countries work together. 6 marks

Q2. Examine any four criteria proposed for new members of the UN security council. 6 marks

Q3. Describe the composition of the United Nations security council and suggested reforms to make it more relevant. 6 marks

Geography-

Prepare mind maps on the following topics -

1 Classification of cities

2 Types of Industries

3 Human Geography

4 Land Use Pattern

5 Human Development Factors

Economics-

1. Justify the following statements with valid reasons:

- i. "Money serves as a measure of standard of deferred payments.
 - ii. Fiat money is the same as fiduciary money.
 - iii. Money facilitates transfer of value.
 - iv. Money may be used as a commodity.
 - v. Face value of money is always greater than its intrinsic value.
2. Explain the significance of 'medium of exchange function of money.'
3. State two problems of barter system of exchange. How does money solve them.
4. Explain the process of money creation by commercial banks, including a numerical example.
5. What are the functions of a central bank, such as the Reserve Bank of India (RBI)?
6. Differentiate between a central bank and a commercial bank.

Maths-

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

1. Let $A = \text{diag}[3, -5, -7]$ and $B = \text{diag}[1, -3, 4]$. Find $(A+2B)$.

2. If $A = \begin{bmatrix} 3 & 3 & 2 \\ 4 & 2 & 0 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 1 & 2 \\ 1 & 2 & 4 \end{bmatrix}$. Verify that $(A+B)^t = A^t + B^t$

3. If $A = \begin{bmatrix} -2 \\ 4 \\ 5 \end{bmatrix}$, $B = [1 \quad 3 \quad -6]$, verify that $(AB)^t = B^t A^t$

4. Evaluate $\int \frac{\cot x}{\log(\sin x)} dx$

5. If $y = \tan^{-1} \left[\frac{x}{\sqrt{a^2 - x^2}} \right]$, $|x| < a$ then find $\frac{dy}{dx}$.

Physics-

Every question contains 3 marks .

1. A circular coil of wire consisting of 100 turns, each of radius 8.0 cm carries a current of 0.40 A. What is the magnitude of the magnetic field B at the centre of the coil?
2. A long straight wire carries a current of 35 A. What is the magnitude of the field B at a point 20 cm from the wire?
3. A long straight wire in the horizontal plane carries a current of 50 A in the north-to-south direction. Give the magnitude and direction of B at a point 2.5 m east of the wire.
4. A horizontal overhead power line carries a current of 90 A in the east-to-west direction. What is the magnitude and direction of the magnetic field due to the current 1.5 m below the line?

Chemistry-

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

(ii) Each question carries 3 marks each.

1. Describe the shape and magnetic behaviour of following complexes :
(i) $[\text{Co}(\text{NH}_3)_6]^{3+}$
(ii) $[\text{Ni}(\text{CN})_4]^{2-}$ (At. No. Co = 27, Ni = 28)
2. When a coordination compound $\text{CoCl}_3 \cdot 6\text{NH}_3$ is mixed with AgNO_3 , 3 moles of AgCl are precipitated per mole of the compound. Write
(i) Structural formula of the complex
(ii) IUPAC name of the complex
3. Explain the following terms giving a suitable example in each case :
(i) Ambident ligand
(ii) Denticity of a ligand
(iii) Crystal field splitting in an octahedral field
4. State a reason for each of the following situations :
(i) Co^{2+} is easily oxidized to Co^{3+} in presence of a strong ligand.
(ii) CO is a stronger complexing reagent than NH_3 .
(iii) The molecular shape of $[\text{Ni}(\text{CO})_4]$ is not the same as that of $[\text{Ni}(\text{CN})_4]^{2-}$

Biology-

1. A student collected a flower and observed that its anthers were large and versatile, while the stigma was feathery. Identify the type of pollination. Explain how the structural adaptations help in this type of pollination. (5 Marks)
2. Why is double fertilisation considered a unique feature of angiosperms? Explain the process with a neat diagram. State its significance. (5 Marks)
3. In a cross-pollinated flower, the pollen grains germinate on the stigma. Explain how fertilisation is achieved. (5Marks)
4. A farmer wants to produce seedless watermelons on a commercial scale. Which plant breeding technique should he use? Explain the principle and process involved. (5 Marks)
5. A student collected a mature ovule of a flowering plant and observed an embryo sac structure. Draw a labeled diagram of a mature embryo sac. Explain the role of synergids and antipodals. (5Marks)

Physical Education-

1. What is the concept of balance diet ? Explain it with examples.? (5 Marks)
2. What are the benefits of yoga Asanas ? (5 Marks)

Commercial Arts-

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

- Q.1 Describe the famous painting "Radha Bani-Thani" from the Kishangarh school of Rajasthani painting. (6 Marks)
- Q.2 Describe the origin and development of the Rajasthani school of miniature paintings. (6 Marks)
- Q.3 Write a short note on Kangra style under the Pahari school. (6 Marks)

Business Studies-

- Q.1 How does understanding of business environment help in improving performance of a business? (3 Marks)

Q.2 Give an example to show that a business firm operates within numerous interrelated factors constituting the business environment. (Hint: example highlighting the interrelatedness of dimensions of business environment). (6 Marks)

Accountancy-

Instructions:

Answer all the questions neatly in your Accountancy Notebook.

Prepare Partner's Loan Account in the following situations

Situation I:

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 equal annual instalments together with interest @10% p.a. First instalment being paid on 31st March, 2023. Prepare B's Loan Account till it is finally closed.

Situation II

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 four equal half-yearly /semi-annual instalments together with interest @10% p.a. First instalment being paid on 30th September, 2022. Prepare B's Loan Account till it is finally closed.

Situation III:

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 six equal quarterly instalments together with interest @10% p.a. First instalment being paid on 30th June, 2022.

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

Situation IV:

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 four equal annual instalments together with interest @10% p.a. First instalment being paid on 31st March, 2024.

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

Situation V:

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 equal instalments together with interest @10% p.a at the end of second, fourth and sixth year.

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

Punjabi-

ਕੁੱਲ-ਅੰਕ 7

ਆਪਣੀ ਪੱਕੀ ਕਾਪੀ 'ਤੇ ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ:-

ਹੇਠ ਦਿੱਤੀ ਗਈ ਕਾਵਿ -ਟੁਕੜੀ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ :-

ਵੇ ਦਰਦ ਮੰਦਾ ਦਿਆ ਦਰਦੀਆ ।

ਉਠ ਤੱਕ ਆਪਣਾ ਪੰਜਾਬ ।

ਅੱਜ ਬੇਲੇ ਲਾਸ਼ਾਂ ਵਿਛੀਆਂ ਤੇ ਲਹੂ ਦੀ ਭਰੀ ਚਨਾਬ।

ਕਿਸੇ ਨੇ ਪੰਜਾਂ ਪਾਣੀਆਂ ਵਿੱਚ ਦਿੱਤੀ ਜ਼ਹਿਰ ਰਲਾ।

ਤੇ ਉਹਨਾਂ ਪਾਣੀਆਂ ਧਰਤ ਨੂੰ ਦਿੱਤਾ ਪਾਣੀ ਲਾ।

ਪ੍ਰਸੰਗ:- ਇਹ ਕਾਵਿ ਸਤਰਾਂ 'ਲਾਜਮੀ ਪੰਜਾਬੀ -12' ਨਾਂ ਦੀ ਪਾਠ ਪੁਸਤਕ ਵਿੱਚ ਦਰਜ ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦੀ ਕਵਿਤਾ 'ਵਾਰਸ ਸ਼ਾਹ' ਵਿੱਚੋਂ ਲਈਆਂ ਗਈਆਂ ਹਨ ਇਸ ਕਵਿਤਾ ਵਿੱਚ 1947 ਈਸਵੀ ਦੀ ਦੇਸ਼ ਵੰਡ ਦੇ ਦੁਖਾਂਤ ਨੂੰ ਚਿਤਰਿਆ ਹੈ ਇਹ ਵੰਡ ਜਾਨ ਮਾਲ ਦੇ ਨੁਕਸਾਨ ਦੇ ਨਾਲ ਨਾਲ ਪਿਆਰ ਇਸ਼ਕ ਦੇ ਦੁਖਾਂਤ ਦਾ ਵੀ ਕਾਰਨ ਬਣੀ। ਇਹਨਾਂ ਸਤਰਾਂ ਵਿੱਚ ਦੇਸ਼ ਵੰਡ ਸਮੇਂ ਹੋਏ ਕਤਲੇਆਮ ਦਾ ਵਰਣਨ ਹੈ।
ਵਿਆਖਿਆ:- ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਆਖਦੀ ਹੈ ਕਿ ਪੰਜਾਬ ਦੀਆਂ ਰੋਂਦੀਆਂ ਹੋਈਆਂ ਲੱਖਾਂ ਧੀਆਂ ਵਾਰਸ ਸ਼ਾਹ ਨੂੰ ਆਖ ਰਹੀਆਂ ਹਨ ਕਿ ਦੁਖੀਆਂ ਦਾ ਦਰਦ ਮਹਿਸੂਸ ਕਰਨ ਵਾਲਾ ਵਾਰਸ ਕਬਰਾਂ ਵਿੱਚੋਂ ਉਠ ਕੇ ਆਪਣੇ ਪੰਜਾਬ ਦੀ ਤਰਸਯੋਗ ਹਾਲਤ ਦੇਖੇ। ਜਿਨ੍ਹਾਂ ਬੇਲਿਆਂ

ਵਿੱਚ ਹੀਰ ਅਤੇ ਰਾਂਝੇ ਵਰਗਿਆਂ ਦੇ ਪਿਆਰ ਪਲਦੇ ਸਨ। ਉੱਥੇ ਲਾਸ਼ਾਂ ਵਿਛੀਆਂ ਹੋਈਆਂ ਹਨ ਅਤੇ ਇਸ਼ਕ ਦਾ ਦਰਿਆ ਸਮਝਿਆ ਜਾਣ ਵਾਲਾ ਝਨਾਂ ਲਹੂ ਨਾਲ ਭਰਿਆ ਪਿਆ ਹੈ। ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਮਹਿਸੂਸ ਕਰਦੀ ਹੈ ਕਿ ਪੰਜਾਬ ਦੇ ਪੰਜ ਦਰਿਆਵਾਂ ਦੇ ਪਾਣੀਆਂ ਵਿੱਚ ਕਿਸੇ ਦੇਖੀ ਨੇ ਫਿਰਕੂਪਣੇ ਦੀ ਜਹਿਰ ਰਲਾ ਦਿੱਤੀ ਹੈ ਅਤੇ ਇਹ ਜਹਿਰੀਲੇ ਪਾਣੀ ਪੰਜਾਬ ਦੀ ਧਰਤੀ ਨੂੰ ਲਗਾ ਦਿੱਤੇ ਗਏ ਹਨ।

English-

Q1 Do you agree with Keats' idea of permanence of joy that beauty gives, considering especially the impermanence of beauty itself. Discuss. 5 Marks

Q2. "Modern man is depressed and isolated." Comment on the basis of the poem "Keeping Quiet". 5 Marks

Q3. "My mother at 66" is a beautiful poem about the mother-daughter relationship. Discuss. 5 Marks

Information Technology-

Instructions - Please write this work on notebook and bring all completed homework on the reopening day. There will be a class test of all these questions once the school opens. All questions are worth of 4 marks each.

1. What are the advantages of online reservation system?

Answer – Online reservation systems have benefits for both the business offering the reservation services and the customer using the system to make a reservation. We go over the benefits of using an online reservation system –

Advantages for consumers

a. Convenient – The user/consumer can book tickets anytime anywhere – from home, office, while travelling, etc. All the user needs is just a computer, Internet access, and a card (credit, debit, etc.) for payment.

b. Price Comparison – Online booking allows the customer to check the prices, compare them and get the best deal.

c. Security – Most online reservation sites require the user to create their profile and provide them with a username and password. The information thus remains secure until their password is secure.

d. Confirmation of Reservation – When a booking is done, the confirmation of the booking just takes a few seconds. It is fast and secure.

e. Time Saving – Online reservation consumes very less time in contrast to long queues at the counter.

Advantages of providers

a. Requires Less Staffing – Less man-power is required as every task is done through computers.

b. No Spatial Restrictions – The physical location of the office does not really matter to a customer who is reserving tickets online. So, the organization, big or small, can choose their office space depending on their needs.

c. Global Access – Online reservation is available to anyone irrespective of their physical location.

2. Analyze the following scenarios and describe all the steps of the project development cycle:

(i) Online tutoring

(ii) Online matrimonial bureau

(iii) Online ticket booking

Answer –

(i) Online tutoring – An online instructor follows the same steps as a face-to-face tutor: they organize the session, deliver it, and then, ideally, give parents a report on it.

(ii) Online matrimonial bureau – Online matrimony services refer to the establishment of an online community that enables its members to communicate and exchange marriage-related information in specialized, individualized ways.

Digital learning tools

(iii) Online ticket booking – Smart technology is used in an online booking system to eliminate the dangers of manual entry and human mistake. By automatically updating procedures like payment, scheduling, monitoring availability, and notification reminders, it makes booking easier for both you and your consumers.

FMM-

Revise : "Screen Based Trading" and "Equity Derivatives Trading".