SGJ DAV SEN. SEC. PUBLIC SCHOOL, HARIPURA
Class – 11th (All Subjects Assignment)
Date – 27.08.2025

History-

Instructions: Write these questions on your notebook.

Answer the following questions in 150-180 words.

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

1. " Mesopotamia was a land of diverse geographical conditions" Explain the statement in your views in eight points. 8 marks

2. "The greatest legacy of Mesopotamia to the world is its scholarly tradition of time reckoning and mathematics." Elaborate this statement in your views in eight points. 8 marks

3. "Slavery was an institution deeply rooted in the ancient world both in the Mediterranean and the Near East." Describe this statement with the special reference of controlling workers. 8 marks

Political Science-

Instructions - Please write this work on notebook and bring all completed homework on the reopening day.

There will a class test of all these questions once the school opens. All questions are worth of 6 marks each.

Q1. How Constitution expresses the fundamental identity of the people.

Q2. How fundamental rights protect the citizens and contribute to the democratic structure of India.

Q3. Explain the key characteristics of democratic elections and their significance.

Q4. Discuss any six functions of the election commission of India.

Geography-

All students are required to write down the following questions in their Geography notebooks and learn them. There will a class test of all these questions once the school opens. Each question carries 5 marks.

Q1. Explain how the physiographic divisions of India influence climate, vegetation, and human activities.

Answer:

- The Himalayas act as a barrier, preventing cold winds from Central Asia and causing monsoon rains in India.
- The Northern Plains support intensive agriculture due to fertile alluvial soil.
- The Peninsular Plateau is rich in minerals, promoting mining and industries.
- The Coastal Plains support fishing, trade, and plantation crops.
- The Islands provide strategic defense locations and biodiversity.

Q2. Discuss the role of rivers in shaping the economy and culture of India.

Answer:

- Rivers provide fertile soil through alluvial deposits, supporting agriculture.
- Hydropower generation helps in industrial and domestic use.
- Rivers act as transport routes (e.g., Ganga, Brahmaputra).
- They hold cultural and religious significance (e.g., Ganga in Hindu rituals).
- Provide freshwater for drinking, irrigation, and industries.

Q3. The Himalayas are geologically young and structurally unstable. Examine the statement with examples.

Answer:

- Himalayas were formed due to the collision of Indo-Australian and Eurasian plates ~40 million years ago (geologically young).
- They are still rising; earthquakes (Nepal 2015) show instability.
- Frequent landslides and floods (Himachal, Uttarakhand) highlight fragility.
- Glacial lake outburst floods (GLOFs) are common.
- Despite instability, they play a vital role in climate and water resources.

Q4. How does the Peninsular Plateau differ from the Northern Plains in terms of relief, resources, and economy?

Answer:

- **Relief:** Plateau – uneven, rocky, with hills and valleys; Plains – flat and extensive.
- **Resources:** Plateau – mineral rich (coal, iron ore, manganese); Plains – fertile alluvial soil.
- **Economy:** Plateau – supports mining and industries; Plains – agriculture-based with high population density.
- **Drainage:** Plateau rivers – seasonal and fast-flowing; Plains rivers – perennial and navigable.
- **Human Settlement:** Plateau – scattered; Plains – dense.

Q5. Evaluate the importance of coastal plains and islands in India's strategic and economic development.

Answer:

- Coastal plains provide fertile land for rice, coconut, and spices cultivation.
- Fishing and aquaculture are major livelihood sources.
- Ports (Mumbai, Chennai, Kochi) enhance trade and commerce.
- Islands (Andaman & Nicobar, Lakshadweep) provide defence outposts and EEZ (Exclusive Economic Zone).
- Tourism (Goa, Andaman's, Kerala backwaters) contributes to economy.

Economics-

Instructions:

Answer all the questions neatly in your Economics Notebook.

1. Differentiate between change in demand and change in quantity demanded.
2. What will be the effect on demand curve of commodity if price of commodity Y increases in case of
a. X and Y are complementary goods
b. X and Y are supplementary goods
3. Calculate elasticity of demand if price of good X rises from ₹ 100 to ₹ 150 and demand falls from 500 kg to 400 kg.
4. Calculate price of good X if due to increase in its price by ₹100, its quantity demanded falls from 400 kg to 200 kg and elasticity of demand is 2.
5. Calculate elasticity of demand if price of good X rises from ₹ 25 to ₹ 50 and demand falls from 50 kg to 20 kg by total expenditure method.

Psychology-

Instructions: Write the answers in fair notebook

Q.1 How can you distinguish scientific psychology from the popular notions about the discipline of Psychology?

Q.2 Give a brief account of the evolution of psychology.

Q.3What is behaviour? Give examples of overt and covert behaviour?

Maths-

Q1 If A = {1, 3, 5} B = {2, 3} then find: AxB and BxA are they equal?

If A = {1, 2} B = {2, 3, 4} C = {4, 5} then find: A x(B U C)   2 MARKS

Q2 Find a and b if (a - 1, b + 5) = (2, 3) then find a+b also.   2 MARKS

Q3 If A = {1, 2, 3, 4}, B = {3, 4, 5, 6},   3 MARKS

find: A ∩ B, A – B, B – A

Q4 Let A = {x, y, z} and B = {1, 2}. Find the number of   3 MARKS

relations from A to B.

Q5 sin2 x + 2 sin 4x + sin 6x = 4 cos 2 x sin 4x   3 MARKS

Q6 If the arcs of the same length in two circles subtend angles   4 MARKS

65° and 110° at the centre, find the ratio of their radii.

Q7 Find the multiplicative inverse of √5+3 I And – I   3 MARKS

Q8 Find all pairs of consecutive odd positive integers both of   4 MARKS

which are smaller than 10 such that their sum is more than 11.

Physics-

Instructions: -

Dear Students, you have to solve following questions on your notebook in neat and clean way. You have to submit this work after opening of schools to your subject teacher.

1. The mass of planet Jupiter is 1.9×10^{27} kg and that of the sun is 1.99×10^{30} kg. The mean distance of Jupiter from the Sun is 7.8×10^{11} m. Calculate gravitational force which sun exerts on Jupiter, and the speed of Jupiter. (3 Marks)

2. If the radius of earth shrinks by 2%, mass remaining constant. How would the value of acceleration due to gravity change? (3 Marks)

3. . Imagine a tunnel dug along a diameter of the earth. Show that a particle dropped from one end of the tunnel executes simple harmonic motion. What is the time period of this motion? (3 Marks)

4. A body of mass 2 kg initially at rest moves under the action of an applied horizontal force of 7 N on a table with coefficient of kinetic friction = 0.1. Compute the following: (a) Work done by the applied force in 10 s, (b) Work done by friction in 10 s, (c) Work done by the net force on the body in 10 s, (d) Change in kinetic energy of the body in 10 s, and interpret your results. (3 Marks)

5. Prove that in an elastic collision in one dimension the relative velocity of approach before impact is equal to the relative velocity of separation after impact? (3 Marks)

Chemistry-

Instructions:

(i). Solve all the questions on fair notebook.

(ii) Each question carry 3 marks each.

1. Consider the following species:

   $N^{3-}, O^{2-}, F^-, Na^+, Mg^{2+}, Al^{3+}$

   (a) What is common in them?   (b) Arrange them in order of increasing ionic radii?

2. Elements A, B, C and D have atomic numbers 12,19, 29, and 36 respectively. On the basis of electronic configuration, write to which group of the periodic table each element belongs.

3. (a) How does atomic radius vary in group in the periodic table?

   (b) Explain

   (i) Radius of cation is less than that of the atom. (ii) Radius of anion is more than that of the atom.

   (iii) In iso-electronic ion, the ionic radii decreases with increase in atomic number.

4. Give reasons:

   (i) IE_1 of sodium is lower than that of magnesium whereas IE_2 of sodium is higher than that of magnesium.

   (ii) Noble gases have positive value of electron gain enthalpy.

5. Name different blocks of elements in the periodic table. Give general electronic configuration of each block.

Biology-

1. Predict the possible complications in pregnancy if Rh negative mother carries Rh positive fetus. How would you apply your knowledge of immunity to suggest a preventive medical solution? (3 Marks)

2. Analyze the role of thyroid hormones in regulating metabolism. If the thyroid secretes hormones in excess or deficiency, evaluate how it would affect growth, weight, and energy balance in a human body.(3 Marks)

3. Examine the structural differences between chordates and non-chordates. How do these differences explain their evolutionary advancement and survival strategies in different habitats? (3 Marks)

4. Hemoglobin is crucial for oxygen transport. Analyze how changes in pH, temperature, and oxygen concentration affect its oxygen-binding capacity (Bohr's effect). How is this adaptation useful for active muscles during exercise? (3 Marks)

5. Using the sliding filament theory, explain how ATP plays a role in muscle contraction and relaxation. Predict what would happen if ATP were suddenly unavailable in the muscle cells. (3 Marks)

6.Evaluate the role of SA node, AV node, Bundle of His, and valves in maintaining rhythmic heartbeat. If the SA node fails to function, predict the possible consequences on the cardiac cycle and suggest a medical intervention. (5 Marks)

Business Studies-

Instructions: Solve the following case studies in your fair notebook.

Q.1Jyoti wanted to sell her mobile phone but did not get any buyer. On her friend's suggestion she posted the mobile on sales on wwrw.olx.com and found a buyer within two days. Name the type of e-business.

Q.2 Ram stays in a hostel in the USA and his parents stay in Mumbai. Ram's birthday is in five days and his parents wish to give him a pair of branded shoes. How can they give gifts?

Q.3 Explain any four limitations of electronic mode of doing business. Are these limitations severe enough to restrict its scope? Give reasons for your answer.

Q.4 Why are e-business and outsourcing referred to as the emerging modes of business? Discuss the factors responsible for the growing importance of these trends?

Accountancy-

Instructions:

Answer all the questions neatly in your Accountancy Notebook.

1. Name the document which is required at the time when
   a. Goods are sold for cash
   b. Goods are returned to supplier
   c. Amount deposited into Bank
   d. Goods are sold on credit
   e. Amount withdrawn from bank
2. Under which basis of accounting salary outstanding is recorded in the books of accounts?
3. What is golden rule of Nominal Account?
4. On which side of double column cash book contra entries are recorded?
5. Which book is known as book of final entry?
6. Name the transaction which are recorded in Purchase book.
7. Goods withdrawn for personal use are recorded in which subsidiary book?
8. Classify the following items as Real, Personal or Nominal:

Salary paid	Accrued interest
Bank overdraft	Cash in hand
Goodwill	Furniture
Patents	Depreciation
Bad- debts	Purchase return

9. Classify the following items as Natural, Artificial or Representative personal account:

DAV School	Axis Bank
Loan to friend	Bank balance
Capital	Outstanding rent
Loan from wife	Reliance ltd
Due to Harry	Due from Edwin

10. Classify the following assets as current and non-current assets

Goodwill	Furniture
Stock	Cash at bank
Plant	Motor vehicle
Debtor	Prepaid Insurance
Accrued Income	Computer Software

Punjabi-

ਲਿਖਤ ਸਾਫ ਹੋਣੀ ਚਾਹੀਦੀ ਹੈ ।ਪੱਕੀ ਕਾਪੀ ਉੱਤੇ ਲਿਖੋ- ਕੁੱਲ ਅੰਕ-4+4+4

ਪ੍ਰਸ਼ਨ-1 ਸੁੰਦਰਾ ਕੌਣ ਸੀ ?ਉਸਦਾ ਪੂਰਨ ਨਾਲ ਸੰਪਰਕ ਕਿਵੇਂ ਹੋਇਆ?

ਉੱਤਰ-ਸੁੰਦਰਾ ਇਕ ਰਾਣੀ ਸੀ ।ਪੂਰਨ ਉਸਦੇ ਦਰ ਤੇ ਭਿਖਿਆ ਮੰਗਣ ਲਈ ਗਿਆ ਸੀ ਅਤੇ ਰਾਣੀ ਨੇ ਪੂਰਨ ਨੂੰ ਮਹਿਲਾ ਉੱਤੋਂ ਦੇਖਿਆ ਉਹ ਉਸਦੀ ਜਵਾਨੀ ਤੇ ਸੁੰਦਰਤਾ ਨੂੰ ਵੇਖ ਕੇ ਉਸਦੇ ਮੋਹਿਤ ਹੋ ਗਈ। ਉਸਨੇ ਖੁਦ ਪੂਰਨ ਦੀ ਝੋਲੀ ਵਿੱਚ ਮੋਤੀਆਂ ਦਾ ਭਰਿਆ ਥਾਲ ਪਾ ਦਿੱਤਾ। ਇੰਝ ਉਸਦਾ ਪੂਰਨ ਨਾਲ ਸੰਪਰਕ ਹੋਇਆ।

ਪ੍ਰਸ਼ਨ 2 ਪੂਰਨ ਭਗਤ ਅਤੇ ਰਾਜਾ ਰਸਾਲੂ ਵਿੱਚ ਕਿਹੜੇ ਕਿਹੜੇ ਸਮਾਨ ਅਤੇ ਕਿਹੜੇ ਕਿਹੜੇ ਵੱਖਰੇ ਗੁਣ ਸਨ ?

ਉੱਤਰ -ਜੋਤਸ਼ੀਆ ਨੇ ਰਾਜਾ ਸਲਵਾਨ ਨੂੰ ਦੱਸਿਆ ਸੀ ਕਿ ਉਹ ਪੂਰਨ ਤੇ ਰਸਾਲੂ ਦੇ ਜਨਮ ਤੋਂ 12 ਸਾਲ ਤੱਕ ਉਹਨਾਂ ਦਾ ਮੂੰਹ ਨਾ ਦੇਖੇ ।ਇਸੇ ਲਈ ਰਾਜਾ ਸਲਵਾਨ ਨੇ ਪੂਰਨ ਅਤੇ ਰਸਾਲੂ ਦੋਹਾਂ ਨੂੰ ਹੀ ਭੋਰੇ ਵਿੱਚ ਪਾ ਦਿੱਤਾ ਸੀ ।ਪਰ ਸਾਲੂ ਗਿਆਰਵੇਂ ਸਾਲ ਹੀ ਭੋਰੇ ਤੋਂ ਬਾਹਰ ਆ ਗਿਆ ਸੀ ਲੂਣਾ ਦੀ ਤੋਹਮਤ ਕਰਕੇ ਰਾਜਾ ਸਲਵਾਨ ਨੇ ਜਲਾਦਾਂ ਨੂੰ ਹੁਕਮ ਦਿੱਤਾ ਸੀ ਕਿ ਉਹ ਪੂਰਨ ਨੂੰ ਮਾਰ ਕੇ ਕਿਸੇ ਖੂਹ ਵਿੱਚ ਸੁੱਟ ਦੇਣ ।ਪਰ ਰਾਜਾ ਸਲਵਾਨ ਨੇ ਰਾਜਾ ਰਸਾਲੂ ਨੂੰ ਦੇਸ਼ ਨਿਕਾਲਾ ਦਿੱਤਾ ਸੀ ਕਿਉਂਕਿ ਉਹ ਪਾਣੀ ਭਰਨ ਆਈਆਂ ਕੁੜੀਆਂ ਦੇ ਘੜੇ ਤੋੜ ਦਿੰਦਾ ਸੀ। ਅਤੇ ਉਹਨਾਂ ਦੀਆਂ ਗਾਗਰਾਂ ਤੀਰਾਂ ਨਾਲ ਵਿੰਨ ਦਿੰਦਾ ਸੀ। ਪੂਰਨ ਤੇ ਰਸਾਲੂ ਦੋਵੇਂ ਹੀ ਸੁੰਦਰ ਸਨ। ਲੂਣਾ ਪੂਰਨ ਦੀ ਸੁੰਦਰਤਾ ਤੇ ਮੋਹਿਤ ਹੋ ਗਈ ਸੀ ਅਤੇ ਰਾਣੀ ਸੁੰਦਰਾ ਵੀ ਪੂਰਨ ਦੇ ਰੂਪ ਤੇ ਡੁੱਲ ਗਈ ਸੀ ।ਦੂਸਰੇ ਪਾਸੇ ਚੰਦਨ ਦੇਈ ਨਾਂ ਦੀ ਰਾਜਕੁਮਾਰੀ ਰਸਾਲੂ ਵੱਲ ਖਿੱਚੀ ਗਈ ਸੀ ਜਿੱਥੇ ਪੂਰਨ ਕਰਾਮਾਤੀ ਸੀ। ਉੱਥੇ ਰਸਾਲੂ ਇੱਕ ਬਹਾਦਰ ਲੋਕ ਨਾਇਕ ਸੀ।

ਪ੍ਰਸ਼ਨ 3 ਹਰਿਆ ਨੀ ਮਾਲਣ ਘੋੜੀ ਵਿੱਚ ਵਿਆਹੇ ਜਾਣ ਵਾਲੇ ਮੁੰਡੇ ਤੇ ਉਸਦੇ ਪਰਿਵਾਰ ਦੀ ਵਡਿਆਈ ਕਿਵੇਂ ਦੱਸੀ ਗਈ ਹੈ ?

ਉੱਤਰ- ਵਿਆਂਹਦੜ ਮੁੰਡਾ ਭਾਗਾਂ ਭਰਿਆ ਹੈ ।ਉਹਦੇ ਪੈਦਾ ਹੋਣ ਤੇ ਉਸ ਨੂੰ ਰੇਸ਼ਮ ਦੇ ਕੱਪੜੇ ਵਿੱਚ ਲਪੇਟਿਆ ਗਿਆ ।ਉਹਦੇ ਜਨਮ ਤੇ ਦਾਈਆਂ ਤੇ ਮਾਈਆਂ ਨੂੰ ਪੰਜ ਪੰਜ ਰੁਪਏ ਦਿੱਤੇ ਗਏ ਤੇ ਭੈਣਾਂ ਨੂੰ ਰੇਸ਼ਮ ਦੇ ਤੇਵਰ ਮਿਲੇ ।ਵਿਆਂਹਦੜ ਦੇ ਸਿਹਰੇ ਦਾ ਮੁੱਲ ਤਿੰਨ ਲੱਖ ਸੀ। ਮਾਲਣ ਜਦ ਵਿਆਂਦੜ ਦੀ ਮਾਂ ਨੂੰ ਸਿਹਰੇ ਦਾ ਮੁੱਲ 3 ਲੱਖ ਦੱਸਦੀ ਹੈ ਤਾਂ ਮਾਂ ਮਾਲਣ ਨੂੰ ਆਖਦੀ ਹੈ ਕਿ ਉਹ ਇਸ ਕੀਮਤੀ ਸਿਹਰੇ ਨੂੰ ਉਹਦੇ ਪੁੱਤਰ ਦੇ ਮੱਥੇ ਤੇ ਬੰਨੇ।

English-

Instructions : Each question carries 5 marks.

1. Draft a poster on water conservation issued by the Delhi Jal Board to create awareness about the means of saving water.

2. You are a fitness trainer in a health club. Design a poster in not more than 50 words, to emphasise the importance of exercise in maintaining mental and physical fitness. You are Prem/Priya.

3. Draft a poster on the theme of road safety.

4. As the Manager of 'Excellent Coaching Centre' run by you, prepare a poster calling the attention of students desirous of attending IIT, CPMT coaching to join your coaching centre.

5. You were very upset about the reports on communal riots in various parts of the country. As a concerned social worker, design a poster in not more than 50 words, highlighting the importance of communal harmony. You are Vinay/Vineeta.

Information Technology-

Instructions - Please write this work on notebook and bring all completed homework on the reopening day. There will a class test of all these questions once the school opens. All questions are worth of 3 marks each.

Explain the following terms. (Words limit 70-80 words)

1. MAC Address   2. IP Address   3. Domain Name
2. Names and Country-Specific Domain Names. For examples Generic Domain Names, Country specific domain names and domain name resolution

FMM-

Instructions: Write the answers in fair notebook

Q.1 Why do companies need to issue shares to the public?

Q.2 What does 'price discovery through book building process' mean?

Q.3 What is the main difference between offer of shares through book building and offer of shares through normal public issue?

Q.4 Who decides the price band?