

# SGJ DAV SEN. SEC. PUBLIC SCHOOL, HARIPURA

## Class – 11th (All Subjects Assignment)

### Date – 01.09.2025

#### History-

Instructions: Write these questions in 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.

- Describe the role of slaves and hired labour in the Roman economy. 8 Marks
- “The Mongols were a diverse body of people, linked by similarities of language to the Tatars, Khitan and Manchus to the east, and the Turkic tribes to the west.” Describe the statement with the context of social and political background. 8 Marks
- “When we remember Genghis Khan today the only images that appear in our imagination are those of the conqueror, the destroyer of cities, and an individual who was responsible for the death of thousands of people, But the Mongols assume that he was the hero.” Elaborate the statement in eight points. 8 Marks

#### Political Science-

- State any six characteristics of an election manifesto. 6 Marks
- Explain the key characteristics of democratic elections and their significance. 6 Marks
- Compare and contrast the First Past The Post and Proportional Representation systems. 4 Marks

#### Geography-

Updated Syllabus for September 2025 Exam is given below. The students are to focus on these chapters only.

Book- Fundamentals of Physical Geography

Ch. 1 Geography as a Discipline Ch. 2 The Origin and Evolution of the Earth Ch. 3 Interior of the Earth

Book-India Physical Environment

Ch. 1 India – Location Ch. 2 Structure and Physiography Ch. 3 Drainage

Map work – (From the Book India Physical Environment) Detailed solved map work will be provided in school.

Today's Assignment – Define the following terms in approximately 20 words each

(1) Delta (2) Estuary (3) SMI (4) IST (5) GMT (6) Meanders (7) Lagoon (8) Plateau (9) Coast (10) Nebular Hypothesis (11) Lava (12) Magma (13) Water Divide (14) Riverine Island (15) Plain (16) Gulf (17) Bay (18) Strait (19) Seismology (20) Intrusive landforms

#### Economics-

#### Instructions:

Answer all the questions neatly in your Economics Notebook.

- Calculate Mean, Median and Mode from the following

Mid value	2.5	7.5	12.5	17.5	22.5	27.5	32.5	37.5
No. of Employees	40	60	75	140	100	80	60	45

- Calculate Median from the following

Wages	Less than 100	Less than 150	Less than 200	Less than 250	Less than 300	Less than 350	Less than 400	Less than 450
No. of workers	8	14	18	28	40	48	55	60

- Calculate Median from the following

Wages	More than 100	More than 150	More than 200	More than 250	More than 300	More than 350	More than 400	More than 450
No. of workers	100	80	75	65	40	28	21	8

- Compute Median, Q1, Q3, D8 & P60 from the following information:

Mid -Value	5	15	25	35	45	55	65	75
Frequency	15	7	11	10	13	8	20	16

- Calculate Mode from the following data:

Class Interval	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	3	5	6	10	6	4	3

6. In the following frequency distribution, if the arithmetic mean is 45.6. Find out the missing frequency

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of students	5	6	7	?	4	3	9

### Psychology-

Q.1 What are the steps of Scientific research?

Q.2 Explain interpretive method.

Q.3 What is data?

### Maths-

**All Questions are compulsory.**

**Revise these questions in your notebook.**

**Each Question carry 2 Marks.**

Q1. Write the solution set of the equation  $x^2 - 9 = 0$  in roster form.

Q2. Write the set  $B = \{1, 3, 5, 7, 9, \dots\}$  in set-builder form.

Q3. Write an example of a finite and infinite set in set builder form.

Q4. Write the subsets of  $\{2, 4, 6\}$ .

Q5 Write  $\{x: x \in \mathbb{R}, 2 \leq x \leq 5\}$  as an interval.

Q6 If  $f(x) = x^2 + 2$ ,  $x \in \mathbb{R}$ , then the range of  $f(x)$  is

Q7 If  $A = \{1, 3, 5\}$   $B = \{2, 3\}$  then find:  $A \times B$  and  $B \times A$  are they equal?

If  $A = \{1, 2\}$   $B = \{2, 3, 4\}$   $C = \{4, 5\}$  then find:  $A \times (B \cup C)$

Q8 Find a and b if  $(a - 1, b + 5) = (2, 3)$  then find a+b also.

Q9 Given  $A = \{1, 2, 3, 4, 5\}$ ,  $S = \{(x, y) : x \in A, y \in A\}$ . Find the ordered pairs which satisfy the conditions given below

$x + y = 5$  (ii)  $x + y < 5$  (iii)  $x + y > 8$

Q10 Given  $R = \{(x, y) : x, y \in \mathbb{W}, x^2 + y^2 = 25\}$ . Find the domain and range of R.

Q11 Let f and g be real functions defined by  $f(x) = 2x + 1$  and  $g(x) = 4x - 7$ .

(i) For what real numbers x,  $f(x) = g(x)$ ?

Q12 Define a set. Give two examples of finite and infinite sets.

Q13 Write the following sets in roster form:

$A = \{x : x \text{ is a natural number less than } 10\}$

$B = \{x : x \text{ is a vowel in the English alphabet}\}$

### Physics-

1. Prove that a body falling freely the total mechanical energy always remains conserved. (3 Marks)

2. State and prove work energy theorem. (3 Marks)

3. Show the effect of (a). Height (b). Depth on force of gravity. (3 Marks)

4. State Kepler's laws. (3 Marks)

### Chemistry-

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

(ii) Each question carry 3 marks each.

- Identify the group and valency of the element having atomic number 119. Also, predict the outermost electronic configuration and write the general formula of its oxide.

2. Arrange the elements N, P, O and S in the order of-

(i) increasing first ionisation enthalpy.

(i) increasing non-metallic character.

Give reason for the arrangement assigned.

3. Show the distribution of electrons in an oxygen atom (atomic number 8) using an orbital diagram.

4. Calculate the total number of angular nodes and radial nodes present in the 3p orbital.

### **Biology-**

1. A patient has a fracture in the femur bone. Identify the type of movement that will be most affected and justify your answer. (3Marks)

2. Compare and contrast voluntary and involuntary muscles with suitable examples. (3Marks)

3. A sportsperson complains of muscle fatigue after a race. Explain the biological reason behind this condition. (3Marks)

4. If the synovial fluid is absent from a joint, what functional problems will arise in the body? (2Marks)

5. Analyze how calcium ions play a crucial role in the contraction of skeletal muscles. (2Marks)

### **Physical Education-**

1. Describe the components of wellness? (5 Marks)

2. Enlist the various Sports Awards and explain any one award in details? (5 Marks)

### **Commercial Arts-**

Instructions- Solve the following questions on assignment sheets. These questions will be tested after the school re-opens.

Q-1. Where have the pre-historic rock paintings been found in India? (3 marks)

Q-2. Name any three important features of pre-historic rock paintings. (3 marks)

Q-3. What were the main themes of pre-historic rock paintings? (3 marks)

Q-4. Explain the subject matter and features of pre-historic rock paintings. (6 marks)

### **Business Studies-**

Instructions:

1. Do the work in fair notebook.

2. All the questions are compulsory.

Q.1 Discuss the limitations of the electronic mode of doing business. Are these limitations severe enough to restrict its scope? Give reasons for your answer.

Q.2 Discuss the salient aspects of B2C commerce.

Q.3 Evaluate the need for outsourcing and discuss its limitations.

### **Accountancy-**

#### **Instructions:**

Answer all the questions neatly in your Accountancy Notebook.

1. Read the following passage carefully and answer the below mentioned questions:

Mr. Akhilesh started business for buying and selling of Mobiles with ₹8,00,000 as initial investment. Out of this, he paid ₹4,00,000 for the purchase of Mobiles and ₹60,000 for purchase of furniture and ₹40,000 for computers, the remaining amount was deposited in the bank. He sold some of the Mobiles for ₹3,00,000 (Cash) and some Mobiles for ₹1,50,000 to Mr. Dinesh on credit.

He further bought Mobiles of ₹2,00,000 from Mr. Hitesh on credit and paid Electricity bill ₹5,000, Telephone bill ₹2,000 and cleaning expenses ₹3,000. Mr. Akhilesh gifted one Mobile of ₹12,000 to his father on his retirement and returned 2 mobiles to Mr. Hitesh, being not as per specification. He took out ₹2,000 for his domestic use from office and ₹3,000 from the bank.

i. Identify the Debtor and state the amount receivable from him

ii. Identify the creditor and state the amount payable to him

iii. Calculate amount of 'Expenses'

iv. Calculate amount of capital expenditure incurred by him.

v. Calculate the amount of Drawings

vi. Calculate Net purchases

2. Mr. Ketan who owed us Rs. 80,000 became insolvent and his official receivers pays only 40 paise in a rupee. Calculate the amount of Bad-debt and amount received from him.

3. Godrej Ltd imported two Machineries from Germany, first for sale in India and second for production purpose. How will you treat them?

4. Discuss rules of Double entry system as per Traditional approach.

## Punjabi-

ਕੁੱਲ ਅੰਕ:- 8

ਪੱਕੀ ਕਾਪੀ ਉੱਤੇ ਸੁੰਦਰ ਲਿਖਾਈ ਵਿੱਚ ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ।

ਲੇਖ ਰਚਨਾ- ਇਸਤਰੀਆਂ ਵਿੱਚ ਅਸੁਰੱਖਿਆ ਦੀ ਭਾਵਨਾ(200 ਸ਼ਬਦਾਂ ਵਿੱਚ )ਲਿਖੋ।

## English-

Note: All work must be done in the class notebook.

1. Good grandparents are assets to a family. They become wonderful guides to children as they have a lot of time to spend with them. With their wisdom they quench the thirst of young mind's curiosity besides teaching them moral and ethical values. On the basis of this, elaborate on the beautiful bond of love and friendship between the author and his grandmother. (5)

2. What impression do you form about the narrator on the basis of reading 'We're not afraid to die ... If We can All be Together'? (5)

3. Not only in Pearson's family, but in most families mothers are taken for granted. They do all the work and get no respect. Based on your reading of the story, write a paragraph on the topic: 'The Need to Respect Mothers.' (5)

4. Comment on the significance of the title of the story The Address. [The Address] (5)

## 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 1 mark each.

1. In the year \_\_\_\_\_, all the military communications started using telephone networks setting up dedicated connections between the two parties.

- a. 1950s                      b. 1955s                      c. 1960s                      d. 1965s

2. The US Department of Defense realized the need to connect geographically separated research computers together to form a network. This led to the development of \_\_\_\_\_.

- a. Internet                      b. Arpanet                      c. NSFNet                      d. None of the above

3. ARPANET Stands for \_\_\_\_\_.

- a. Apart Research Project Network  
b. Advanced Research Proper Network  
c. Advanced Research Projects Agency Network  
d. None of the above

4. Several smaller networks interconnected with each other and create \_\_\_\_\_ in 1984.

- a. Internet                      b. Arpanet                      c. NSFNet                      d. None of the above

5. NSFNET Stands for \_\_\_\_\_.

- a. National Science Foundation Network  
b. National Social Foundation Network  
c. New Social Foundation Network  
d. None of the above

6. TCP/IP network develop in the year of \_\_\_\_\_.

- a. 1965s                      b. 1970s                      c. 1975s                      d. 1980s

7. Maximum data transfer rate of a network is known as \_\_\_\_\_.

- a. Channel                      b. Sender                      c. Receiver                      d. Bandwidth

8. \_\_\_\_\_ is the communication medium through which message is transmitted.

- a. Channel                      b. Sender                      c. Receiver                      d. Bandwidth

9. Information can be transferred only in one direction. This mode is termed unidirectional. In computer networks is known as \_\_\_\_\_.

- a. Simplex Mode                      b. Half-duplex                      c. Full-duplex                      d. None of the above

10. \_\_\_\_\_ mode is a bidirectional communication between the two nodes, however, only one node at a time can transmit the data.

- a. Simplex Mode                      b. Half-duplex                      c. Full-duplex                      d. None of the above

11. \_\_\_\_\_ mode data can be send by both communicating parties and receive at the same time.

- a. Simplex Mode                      b. Half-duplex                      c. Full-duplex                      d. None of the above

12. NIC Stands for \_\_\_\_\_.

- a. Network Interface Card                      b. Network Interchange Card  
c. Network Interface Change                      d. None of the above

13. A \_\_\_\_\_ refers to the channel of transmission through which data can be transmitted from one node to another in the form of signal.
- a. Transfer Medium    b. Transmission medium    c. Bandwidth    d. None of the above
14. Example of the guided medium is \_\_\_\_\_.
- a. Coaxial cable    b. Twisted Pair cable    c. Optical Fiber cable    d. All of the above
15. Example of unguided medium is \_\_\_\_\_.
- a. Microwave    b. Radio wave    c. Infrared    d. All of the above
16. \_\_\_\_\_ helps to increase the signal when it become weak and distorted.
- a. Repeater    b. Router    c. Hub    d. Switch
17. \_\_\_\_\_ is just like repeater which connects two cables or several lines.
- a. Switch    b. Hub    c. Repeater    d. Router
18. \_\_\_\_\_ helps to connecting two or more local are networks (LAN).
- a. Switch    b. Repeater    c. Bridge    d. Router
19. \_\_\_\_\_ are used to connect individual nodes in the network with each other. Each node within network is connected to a unique port.
- a. Switch    b. Repeater    c. Bridge    d. Router
20. A \_\_\_\_\_ maintains a routing table of various networks. Based on the destination address, this device determines to which network the incoming packet should be transmitted.
- a. Switch    b. Repeater    c. Bridge    d. Router
21. A \_\_\_\_\_ connects networks based on different protocol technologies to communicate with each other.
- a. Switch    b. Repeater    c. Bridge    d. Gateway
22. PAN Stands for \_\_\_\_\_.
- a. Potable Area Network    b. Personal Area Network  
c. PAN Area Network    d. None of the above
23. LAN Stands for \_\_\_\_\_.
- a. Local Area Network    b. Long Area Network  
c. Local And Network    d. None of the above
24. MAN Stands for \_\_\_\_\_.
- a. Main Area Network    b. Metro Area Network  
c. Metropolitan Area Network    d. None of the above
25. WAN Stands for \_\_\_\_\_.
- a. World Area Network    b. Wide Area Network  
c. Widest Area Network    d. None of the above
26. The arrangement (also called layout) of nodes in a network is called \_\_\_\_\_.
- a. Router    b. Topology    c. Broadcast    d. Point
28. Example of Broadcast topologies.
- a. Bus Topologies    b. Ring Topologies  
c. Both a) and b)    d. None of the above
29. Example of Point to Point topologies.
- a. Star Topologies    b. Mesh Topologies  
c. Both a) and b)    d. None of the above
30. In \_\_\_\_\_, there is a long cable, called backbone cable (or simply backbone), that connects various nodes through a connector called tap.
- a. Bus Topologies    b. Ring Topologies  
c. Star Topologies    d. Mesh Topologies

### **FMM-**

#### **Instructions:**

1. Do the work in fair notebook.
  2. All the questions are compulsory.
- Q.1 What are the various options available for investment?
- Q.2 What is Stock Exchange?
- Q.3 What is an Equity Share?
- Q.4 What is a Derivative?

