

SGJ DAV SEN. SEC. PUBLIC SCHOOL, HARIPURA
Class – 12th (All Subjects Assignment)
Date – 29.08.2025

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. How did architectural features of Mohenjo-Daro indicate planning? Support the statement with examples. 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. Locate the following on the political map of India. 26 marks

Page no. 2 Mature Harappan sites: Harappa, Banawali, Kalibangan, Balakot, Rakhigarhi, Dholavira, Nageshwar, Lothal, Mohenjodaro, Chanhudaro, Kot Diji.

Page no. 30 Mahajanapada and cities: Vajji, Magadha, Kosala, Kuru, Panchala, Gandhara, Avanti, Rajgir, Ujjain, Taxila, Varanasi.

Page no. 33 Distribution of Ashokan inscriptions: • Pillar inscriptions – Sanchi, Topra, Meerut Pillar and Kaushambi. • Kingdom of Cholas, Cheras and Pandyas.

Political Science-

Instruction: Write these questions on your fair notebook

* All are long questions and all are of six marks.

1. The Soviet Union's disintegration was the consequence of many different factors. justify the statement.

2. Assess the economic factors leading to the stagnation and eventual collapse of the Soviet Union.

3. Was shock therapy the best way to make a transition from communism to capitalism?

Geography-

All the questions are to be written and learnt properly. Each question carries 5 marks. Answers given are only hints so you need to develop them further.

Question1 (Human Development): Why is the Human Development Index (HDI) considered a better indicator of development than per capita income?

Answer:

Per capita income measures only economic well-being.

HDI is a composite index: life expectancy (health), literacy & mean years of schooling (education), and per capita income.

Thus, HDI reflects multidimensional development, not just monetary growth.

Example: Sri Lanka has lower per capita income than some countries but higher HDI due to better education and health.

Question 2 (Human Development): “High economic growth does not guarantee high human development.” Justify with an example.

Answer:

Countries may have high GDP but unequal income distribution and poor social indicators.

Example: Oil-rich Middle Eastern countries have wealth but limited literacy and women’s empowerment.

In contrast, countries like Cuba have modest income but high HDI due to focus on health and education.

Question 3 (World Population): Why is the population distribution in the world highly uneven? Give reasons.

Answer:

Physical factors: Fertile plains, water availability, and moderate climate attract dense population (e.g., Ganga Basin, Nile Valley).

Harsh environments (deserts, mountains, polar areas) have sparse population.

Socio-economic factors: Industrialization (Western Europe, Eastern USA) and historical settlement patterns also shape density.

Question 4 (World Population): How is population growth in developed countries different from developing countries?

Answer:

Developed countries: Low birth rate, low death rate → very slow or negative growth (e.g., Japan, Germany).

Developing countries: High birth rate, declining death rate due to better healthcare → rapid growth (e.g., India, Nigeria).

This creates pressure on resources in developing nations, while developed ones face ageing population issues.

Question 5 : Explain the relationship between population growth and human development.

Answer:

Rapid population growth in developing countries strains education, healthcare, housing, and jobs, lowering HDI.

Moderate growth or stable population helps governments invest more per capita in social development.

Example: China's controlled population policy improved HDI, while Sub-Saharan Africa struggles with rapid growth and low HDI.

Economics-

Instructions:

Answer all the questions neatly in your Economics Notebook.

1. How Will you treat the following in the calculation of national income of India? Give reasons for your answer.

Rent free house to an employee by an employer.

Payment of fees to a lawyer against a court case

Profits earned by an Indian bank from its branches abroad

2. Circular flow of income in two sector economies based on the exam that one's expenditure and others income. Do you agree with the given statements for your valid answer with reason used diagram.
3. Explain the role of central bank as banker's bank and supervisor.
4. Describe any two methods by which reserve bank of India can regulate money supply.
5. Describe any 2 methods by which Reserve Bank of India can regulate money supply.

Maths-

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

1. Give an example of a relation which is Symmetric but neither reflexive nor transitive.

2. Is the function defined by $f(x) = x^2 - \sin x + 5$ continuous at $x = \pi$?

3. Check whether the relation R defined in the set $\{1, 2, 3, 4, 5, 6\}$ as $R\{(a, b) : b = a + 1\}$ is reflexive, symmetric or transitive.

4. If $f(x) = \begin{cases} x \cdot \sin \frac{1}{x} & , x \neq 0 \\ 0 & , x = 0 \end{cases}$

Find whether f is continuous at $x = 0$.

5. Find A so that $f(x)$ is continuous at $x = 0$,

$f(x) = \begin{cases} \frac{1 - \cos 8x}{4x^2} & , \text{ if } x \neq 0 \end{cases}$

A , if $x = 0$

Physics-

Dear students , We are sending your Homework. You have to solve this work in your notebook in a neat and clean way. You have to submit this work after the opening of school to your Subject Teacher.

1. Answer the following questions: (5 Marks)

(a) Long distance radio broadcasts use short-wave bands. Why? (b) It is necessary to use satellites for long distance TV transmission. Why? (c) Optical and radio telescopes are built on the ground but X-ray astronomy is possible only from satellites orbiting the earth. Why? (d) The small ozone layer on top of the stratosphere is crucial for human survival. Why? (e) If the earth did not have an atmosphere, would its average surface temperature be higher or lower than what it is now?

2. Find the wavelength of electromagnetic waves of frequency 6×10^{12} hz in free space. Give two applications of the type of wave. (3 Marks)

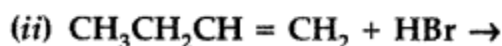
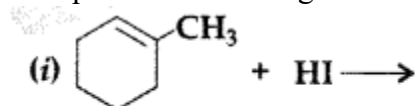
- Write the characteristics of em waves? Write the expression for velocity of electromagnetic waves in terms of permittivity and permeability of the medium? (3 Marks)
- (1) State the condition under which a microwave oven heats up food items containing water molecules most efficiently? (2) Name the radiations which are next to these radiations in em. Spectrum having (a) Shorter wavelength (b) Longer wavelength. (3 Marks)

Chemistry-

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

(ii) Each question carry 3 marks each.

- Complete the following reaction equations :



- How are the following conversions carried out?
 - Benzyl chloride to benzyl alcohol,
 - Methyl magnesium bromide to 2-methyl- propan-2-ol.
- Give chemical tests to distinguish between the following pairs of compounds :
 - Benzyl chloride and Chlorobenzene
 - Chloroform and Carbon tetrachloride .
- Explain why :
 - The dipole moment of chlorobenzene is lower than that of cyclohexyl chloride.
 - Alkyl halides, though polar, are immiscible with water.
- Although chlorine is an electron withdrawing group, yet it is ortho-, para-directing in electrophilic aromatic substitution reactions. Explain why it is so?

Biology-

- Explain the process of double fertilization in angiosperms. Why is it considered unique?(5)
- Describe the structure of an angiosperm ovule with a neat labelled diagram.(5)
- Explain the process of development of male gametophyte in flowering plants.(5)
- Describe the female reproductive system in humans with a neat labelled diagram.(5)
- Explain the hormonal regulation of the menstrual cycle in human females.(5)
- Describe the process of fertilization and implantation in humans.(5)

Physical Education-

Students of 12th subject physical Education will write the answers of the questions which are given in the assignment date wise on the notebook and also learn it .

- List and discuss the various functions of sports management (5Marks)
- What is League tournament ? Explain the types, merits and demerits of League tournament.(5Marks)

Commercial Arts-

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

- What is the Pahari school of miniature painting?(3marks)
- Name any two main centres of the Pahari school of painting.(3marks)
- Mention three features of Pahari miniature paintings.(3marks)
- Describe the main features of the Pahari school of miniature paintings.(6marks)
- Write a short note on Kangra style under the Pahari school.(6marks)

Business Studies-

Instructions:

- Do the work in fair notebook.
 - All the questions are of 4 marks.
- Q.1 The workers of a factory are unable to work on new machines and always demand the help of a supervisor. The supervisor is overburdened with their frequent calls. Suggest the remedy.

Q.2 The quality of Production is not as per standards. On investigation, it was observed that most of the workers were not fully aware of the proper operation of the machinery. What could be the way to improve the quality of production to meet the standards? (training).

Q.3 The workers of a factory remain idle because of the lack of knowledge of hi-tech machines. Frequent visit of an engineer is made, which causes high overhead charges. How can this problem be removed?

Q.4 What is meant by recruitment? How is it different from the selection?

Accountancy-

1. A and B are partners sharing profits in 3: 2. They admit C into partnership for 1/4th share and new ratio is agreed at 3: 3: 2. Goodwill of the firm is agreed at (₹)2,40,000. However, C is unable to bring his share of goodwill in Cash. Pass journal entry for goodwill.
2. Sonu and Monu were partners sharing profits and losses in the ratio 5:3. They admitted Anu as a new partner. Sonu sacrificed $\frac{1}{4}$ from his share and Monu sacrificed $\frac{1}{6}$ of his share. What will be the new ratio?
3. A and B are partners in a firm having a capital of ₹54,000 and ₹36,000 respectively. They admit C for 1/ 3rd share in the profits. C brought proportionate amount of capital. Calculate the amount of capital brought in by C.
4. Anand, Vinod and Tilak were partners sharing profits and losses in the ratio 5:3:2. w.e.f 01 April, 2024 they decided to share future profits and losses in the ratio 2:1:1. For which of the following balances Tilak's A/c will be credited at the time of reconstitution of firm, if the firm decided to continue with available accumulated profits and losses balances.
5. X,Y and Z were partners in a firm sharing profits in the ratio of 3:2:3. Their respective fixed capitals were X- ₹.5,00,000; Y- ₹.4,00,000 and Z- ₹3,00,000. They admitted M into partnership firm as a new partner for 1/5 share in the profits. M brought ₹400000 his capital and the necessary amount for goodwill premium. Their new profit sharing ratio will be 2:1:1:1. Calculate the value of goodwill of the firm, showing your workings clearly. Pass necessary journal entries for the above transaction on M's admission.
6. Bat, Cat and Rat were partners sharing profits and losses in the ratio 5:3:2. On April 1, 2024 they decided to share the profits equally and on that date there was a balance of Investment of ₹ 4,00,000 and Investment Fluctuation Reserve of ₹ 1,00,000 was appearing in the balance sheet. Pass necessary journal entries for Investment Fluctuation reserve in the following cases.
 - i. Market Value of Investments was ₹ 4,80,000.
 - ii. Market Value of Investments was ₹ 3,80,000.
 - iii. Market Value of Investments was ₹ 2,90,000
7. Bat, Cat and Rat were partners sharing profits and losses in the ratio 5:3:2. On April 1, 2024 they decided to share the profits equally and on that date there was a balance of Workmen compensation Reserve of ₹ 1,00,000 was appearing in the balance sheet.

Pass necessary journal entries for Workmen compensation reserve in the following cases.

- (i) If Workmen compensation claim was ₹ 80,000.
 - (ii) If Workmen compensation claim was ₹ 1,80,000.
 - (iii) If Workmen compensation claim was ₹ 1,00,000
8. Pankaj and Naresh were Partners in a firm sharing in the ratio of 3: 2. Their fixed capitals were 500000 and 3,00,000 respectively. on 1st January 2024 Saurabh was admitted as a new partner for 1/5 share in the profits Saurabh acquired his share of profit from Pankaj. Saurabh brought Rs. 3,00,000 as his capital which was to be kept fixed like the capital of Pankaj Naresh. Calculate the goodwill of the firm on saurabh's admission. Also pass journal entry for the treatment of goodwill.

Punjabi-

ਕੁੱਲ -ਅੰਕ :- 8

ਹੇਠ ਲਿਖੇ ਵਿਸ਼ੇ ਤੇ ਪੈਰਾ - ਰਚਨਾ ਆਪਣੀ ਪੱਕੀ ਕਾਪੀ ਉੱਤੇ ਸੁੰਦਰ ਲਿਖਾਈ ਵਿੱਚ ਲਿਖੋ:-

ਸਾਈਬਰ ਅਪਰਾਧ

English-

Q1 The astrologer's prediction about the death of the "Tiger King" came to be true. Do you agree with the statement?

5 Marks

- Q2 "Our native language is part of our culture and we are proud of it". How does the presence of village elders in the classroom in Mr. Hamel's last lesson show their love for French? 5 Marks
- Q3 Presently the prices of essential commodities are sky rockettng causing much hardship to the common man .Write an article in 120-150 words expressing your views and suggesting measures to curb the problem. 5 Marks

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 4 marks each.

Q1. Difference between Entry control loop and Exit control loop

Entry Control Loop	Exit Control Loop
In entry control loop condition is checked first	In exit control loop condition is checked last
If the condition is false, loop body will not execute	If the condition is false, loop body will execute at least once
Example of entry control loop – For & While	Example of exit control loop – Do-while

Q2. The if Else Statement

The if else statement in Java lets us execute a block of code depending upon whether an expression evaluates to true or false. The structure of the Java if statement is as below –

Syntax –

```
if (expression) {
    statements
}
else
{
}
```

Question > Write a Java program to check whether age is greater than 20 or not?

```

    Class Name
    public class school {
        Parameter Type
        public static void main(String[] args) {
            Parameter Name
            int age=20;

            If Statement
            if(age>18) {
                System.out.print("Age is greater than 18");
            }
            else Statement
            else {
                System.out.print("Age is less than 18");
            }
        }
    }

    If condition true Output – Age is greater than 18
    If condition false Output – Age is less than 18
  
```

Q3. Arrays in Java

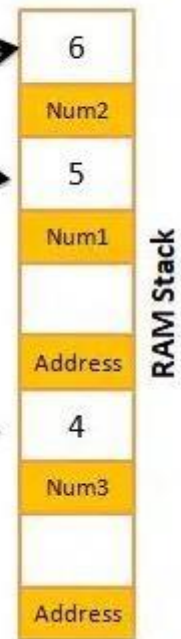
Arrays are variables that can hold more than one value, they can hold a list of values of the same type. For example,

Normal Variable Declaration

```
public class Example {  
    public static void main (String[] args) {  
  
        Int num1 = 5;  
        Int num2 = 6;  
        Int num3 = 4, sum;  
  
        Sum=num1+num2+num3;  
  
        System.out.println(Sum);  
  
    }  
}
```

Note –

1. Managing Variable is difficult
2. Take lot of time to declare variable
3. It take more time for calculation as compare to the Array

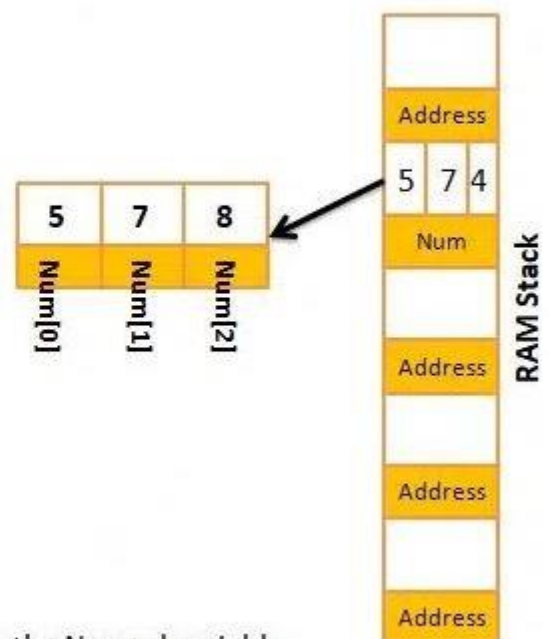


Array Variable Declaration

```
public class Example {  
    public static void main (String[] args) {  
  
        Int num[]=new int[3];  
        Int sum;  
        num[0] = 5, num[1]=7, num[2]=4;  
  
        Sum=num[0]+num[1]+num[2];  
  
        System.out.println(Sum);  
  
    }  
}
```

Note –

1. Managing Variable is easy
2. Take less time to declare variable
3. It take less time for calculation as compare to the Normal variable



FMM-

1. Do the work in fair notebook.
 2. All the questions are of 5 marks.
- Q.1 Explain corporate hierarchy in terms of trade.
Q.2 Explain the types of capital market system.
Q.3 Explain the order management process.