

**SGJ DAV SEN. SEC. PUBLIC SCHOOL, HARIPURA**  
**Class – 11th (All Subjects Assignment)**  
**Date – 30.08.2025**

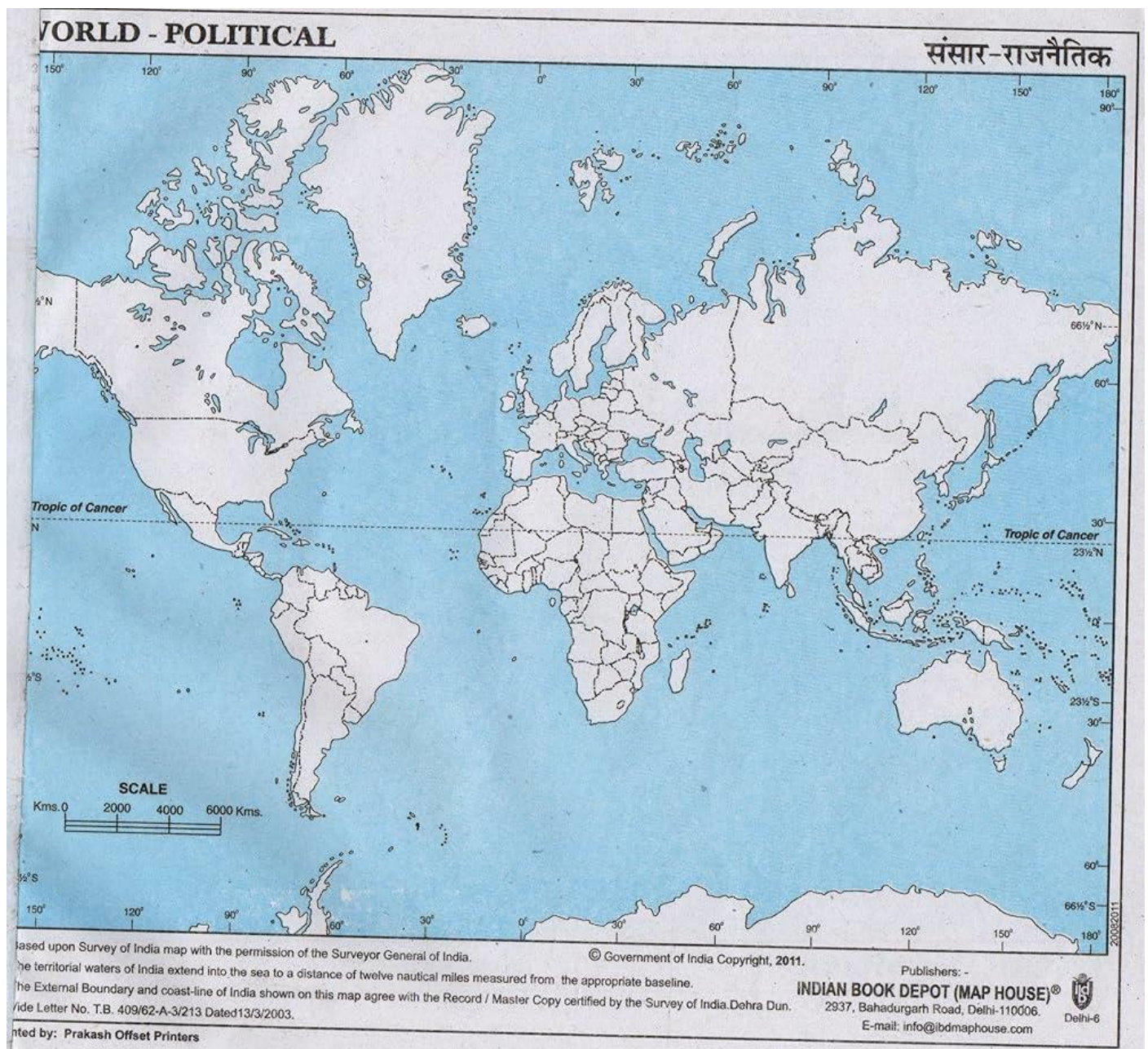
**History-**

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. "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
2. "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
3. "Expansion in agriculture was accompanied by growth in three related areas: population, trade and towns." Explain the statement with reference to the fourth order in eight points. 8 marks
4. Locate/label/identify the following on the political map of World. 8 marks  
Mongolia, Tibet, Karakorum, China, England, Paris, Madrid and Germany.



## Political Science-

Instruction: Write these questions on your fair notebook

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

1. Describe the composition, election process and functions of the Rajya Sabha.
2. Highlight the primary roles and functions carried out by the parliament of India.
3. Highlight the different types of bills introduced in parliament.

## Geography-

All the questions are to be written and learnt properly. Each question carries 5 marks.

Question: Why does India experience a greater range of temperature in the northwestern part compared to the coastal regions?

Answer: Northwestern India has continental climate due to distance from the sea → hot summers, cold winters.

Coastal areas have maritime influence; the sea moderates temperature, leading to smaller range.

Example: Amritsar has  $>20^{\circ}\text{C}$  annual range, while Mumbai has  $<10^{\circ}\text{C}$ .

2. Question: The onset of the monsoon is sudden, but its retreat is gradual. Explain.

Answer: Onset: Low pressure over northwest India and cross-equatorial trade winds bring sudden heavy rainfall in June → monsoon “burst.”

Retreat: By September–October, pressure changes and winds gradually withdraw, reducing rainfall slowly.

Hence, the asymmetry between onset and withdrawal exists.

3. Question: How do the Himalayas and the Indian Ocean together influence the climate of India?

Answer:

Himalayas: Block cold Siberian winds → keep northern plains warmer in winter; force monsoon winds to rise, causing heavy rainfall.

Indian Ocean: Provides moisture to monsoon winds; moderates coastal temperatures.

Together, they create a unique monsoon-dominated climate.

4. Question: Why does the Tamil Nadu coast receive rainfall in the winter season, unlike most parts of India?

Answer:

During retreating monsoon (Oct–Nov), northeast trade winds pick up moisture from the Bay of Bengal.

These winds strike Tamil Nadu coast, bringing rainfall.

Hence, it is the only region of India receiving winter monsoon rainfall.

5. Question: The variability of rainfall in India is very high. Discuss with examples.

Answer: Rainfall is unevenly distributed:

Meghalaya (Mawsynram):  $>1000$  cm annually.

Rajasthan (Thar Desert):  $<10$  cm annually.

In western Rajasthan, rainfall may fail completely, while in Assam/Meghalaya, it floods annually.

This variability affects agriculture, water supply, and economy.

## Economics-

### Instructions:

Answer all the questions neatly in your Economics Notebook.

1. You are Edwin, an investigator who wished to conduct a survey to study the smoking behavior of university students. For this reason, you prepared a questionnaire based upon the objective of this survey and keeping in mind the size of target group trained five people along with you to complete this survey. Your target group comprised of 1500 students across 10 different colleges. You followed all methods of statistics to ensure the accuracy of data.
  - i. Which of the following sources of data is referred in the above situation?
    - a. Primary data
    - b. secondary data
    - c. Internal data
    - d. none of these
  - ii. Which method of collecting primary data will be more suitable in the above situation?
    - a. Direct personal investigation
    - b. Indirect oral investigation
    - b. Information through local correspondence
    - d. None of these
2. Discuss the advantages and disadvantages of census survey.
3. What are the advantages, disadvantages and suitability of sample survey?
4. 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

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

Wages (Rs.)	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No, of workers	5	6	7	?	4	3	9

### Psychology-

Instructions:

1. Write the answers in fair notebook.

2. All the questions are of 5 marks.

Q.1 Write the various developmental stages from infancy to old age.

Q.2 Write the stages of Cognitive Development.

### Maths-

Q1 . How many words can be formed by arranging the letters of the word “**COMPUTER**” so that:

(a) All vowels come together.

(b) No two vowels come together.

Q2 From a group of 6 men and 4 women, a committee of **5 persons** is to be formed. Find the number of ways in which:

(a) Exactly **2 women** are included.

(b) At least **3 women** are included.

Q3 To receive Grade ‘A’ in a course, one must obtain an average of 90 marks or more in five examinations (each of 100 marks). If Sunita’s marks in first four examinations are 87, 92, 94 and 95, find minimum marks that Sunita must obtain in fifth examination to get grade ‘A’ in the course.

Q4 Find all pairs of consecutive odd positive integers both of which are smaller than 10 such that their sum is more than 11.

Q5 Find all pairs of consecutive even positive integers, both of which are larger than 5 such that their sum is less than 23.

### 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: (3 Marks)

(a) The casing of a rocket in flight burns up due to friction. At whose expense is the heat energy required for burning obtained? The rocket or the atmosphere?

(b) Comets move around the sun in highly elliptical orbits. The gravitational force on the comet due to the sun is not normal to the comet's velocity in general. Yet the work done by the gravitational force over every complete orbit of the comet is zero. Why?

(c) An artificial satellite orbiting the earth in very thin atmosphere loses its energy gradually due to dissipation against atmospheric resistance, however small. Why then does its speed increase progressively as it comes closer and closer to the earth?

2. Two identical ball bearings in contact with each other and resting on a frictionless table are hit head-on by another ball bearing of the same mass moving initially with a speed  $V$ . If the collision is elastic, which of the following figure is a possible result after collision? (3 Marks)

3. Show that for elastic collision  $e = 1$ , also Derive the formula for velocities of two bodies after elastic collision. (5 Marks)

4. A body is thrown upward with velocity  $20 \text{ ms}^{-1}$  making angle  $30^\circ$  with horizontal . find out the followings . (3 Marks)

1. max height reached 2. Range 3. Time of flight

### Chemistry-

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

(ii) Each question carry 3 marks each.

- The Balmer series in the hydrogen spectrum corresponds to the transition from  $n_1 = 2$  to  $n_2 = 3, 4, \dots$ . This series lies in the visible region. Calculate the wave number of the line associated with the transition in the Balmer series when the electron moves to  $n = 4$  orbit. ( $R_H = 109677 \text{ cm}^{-1}$ ).
- Out of electrons and protons which one will have a higher velocity to produce matter waves of the same wavelength? Explain it.

3. Calculate the energy and frequency of the radiation emitted when an electron jumps from  $n = 3$  to  $n = 2$  in a hydrogen atom.
4. A photon of wavelength  $4 \times 10^{-7}$  m strikes on metal surface; the work function of the metal being 2.13 eV. Calculate (i) the energy of the photon, (ii) the kinetic energy of the emission (iii) the velocity of the photoelectron. (Given  $1 \text{ eV} = 1.6020 \times 10^{-19} \text{ J}$ ).
5. Electromagnetic radiation of wavelength 242 nm is just sufficient to ionise the sodium atom. Calculate the ionisation energy of sodium in  $\text{kJ mol}^{-1}$ .

### **Biology-**

1. Why is the glomerular filtration rate (GFR) maintained constant even with fluctuating blood pressure? (2 Marks)
2. How does the loop of Henle help in concentrating urine? (3 Marks)
3. What will happen if ADH secretion is stopped? (2 Marks)
4. Why are skeletal muscles called voluntary, while cardiac muscles are not, even though both are striated? (2 Marks)
5. Explain how antagonistic muscle pairs bring about movement in the human body. (2 Marks)
6. How would the deficiency of calcium ions affect muscle contraction? (2 Marks)
7. How does the feedback mechanism regulate the secretion of hormones? (2 Marks)

### **Physical Education-**

Students of 11th 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 .

1. What do you think of Osteoporosis? Describe its causes and treatment. (5)
2. Explain the procedures of any two asanas which help to reduce obesity with stick diagram. (5)

### **Commercial Arts-**

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

- Q1. What are Ashokan pillars famous for? (3 marks)
- Q2. Why are Ajanta caves famous? (3 marks)
- Q3. Describe the geographical situation of Ajanta caves. (3 marks)
- Q4. Explain the main characteristics of Ajanta paintings. (6 marks)

### **Business Studies-**

Instructions:

1. Write the work in fair notebook.
2. Revise your work properly.
- Q.1 "Companies have social responsibility towards shareholders or owners' how?
- Q.2 Explain how the labour movement has helped companies to fulfill their social responsibility?
- Q.3 'To avoid government regulation, businessmen follow the concept of social responsibility'. How much do you agree with this statement?
- Q.4 Why is social responsibility emphasized? State one need for social responsibility?

### **Accountancy-**

#### **Instructions:**

Answer all the questions neatly in your Accountancy Notebook.

1. Enter the following transactions in the books of Mehta traders assuming that all transactions have taken place in the state of Punjab. Assume CGST @ 6% and SGST @6 %:

2025

- |          |  |
|----------|--|
| March 5  | Purchased Building for ₹ 5,00,000 and payment made by cheque.  |
| March 18 | Purchased goods for 1,00,000, at 20% Trade discount and 5% cash discount.                              |
| March 20 | commission received ₹ 20,000 by cheque.  |
| March 22 | Sold goods for ₹ 2,00,000 at cash discount and received a cheque for the same. Cheque is sent to bank. |

2. Use Accounting equation to show the effect of the above transactions on various Assets, Liabilities & capital.

Commenced business with cash Rs. 50,000.

Purchased goods for cash Rs. 20,000 & credit Rs.30,000.

Sold goods for cash Rs. 40,000 costing Rs. 30,000.

Rent paid Rs. 500

Bought refrigerator for personal use amounting Rs. 5,000.

Purchased Computer for Rs. 20,000 Furniture worth Rs. 5,000.

3. Prepare a Petty cash book on the imprest system from the transactions given below:

Date	Particulars	Rs.
2018 Jan.1	Received from cashier Rs.4,200 the amount required to make up the amount of 'imprest' viz.,	5,000
Jan.2	Purchase Stamps	400
	Paid for carriage	300
Jan.4	Paid for office cleaning	200
Jan.5	Paid for wages	250
Jan.6	Paid for railway fare	350
Jan.7	Paid for bus fare	330
Jan.7	Paid for wages	240
Jan.8	Paid rewards to servants	150
Jan.10	Bought shorthand notebooks for office	580
Jan.12	Purchased pens and pencils	320
Jan.13	Paid for envelopes	250
Jan.14	Paid for repairs to typewriter	200
Jan.15	Courier charges	100

4. Prepare Double column cash book of Rakesh from the transactions given below:

Date	Particulars	Rs.
2013 Jan.1	Commenced business with Cash	80,000
Jan.2	Deposit into bank	30,000
Jan.3	Purchased from Sunil Furniture for office use and paid by cheque	15,000
Jan.4	Paid petty expenses	2,000
Jan.5	Bought goods for cash	12,000
Jan.6	Purchased goods from David	20,000
Jan.7	Sold goods to Sunny for cash	8,000
Jan.8	Instructed the bank to issue a bank draft in favour of Sunil	7,000
Jan.8	Bank charged for issuing bank draft	100
Jan.11	Received a cheque from Salman Allowed discount	6,000 200
Jan.12	Salman's cheque endorsed in favor of John	
Jan.16	Deposited in the bank after retaining.	5,000

5. Prepare Double column cash book of Rajesh from the transactions given below:

Date	Particulars	Rs.
2013 Jan.1	Opening Balance of Cash Bank overdraft	1,80,000 20,000
Jan.3	Purchased Computer for office use	45,000
Jan.4	Paid petty expenses by cheque	12,000
Jan.5	Bought goods for cash	30,000

Jan.6	Purchased goods from David	45,000
Jan.7	Sold goods to Sachin for cash	48,000
Jan.8	Instructed the bank to issue a bank draft in favour of David in full settlement of his account	44,000
Jan.8	Bank charges charged by Bank	100
Jan.11	Received a cheque from Dhoni	10,000
Jan.12	Dhoni's cheque returned dishonored by Bank	
Mar,13	Deposited into Bank	20,000
Jan.16	Rent paid by cheque	15,000

### Punjabi-

ਕੁੱਲ ਅੰਕ: -7

ਖੂਨ ਦਾਨ ਕੈਪ ਸਬੰਧੀ ਅਖਬਾਰ ਲਈ ਇੱਕ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ।

### English-

Answer the following in about 120 –150 words.

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.

2. On the basis of the above, elaborate on the beautiful bond of love and friendship between the author and his grandmother. [The portrait of a lady]

3. 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'?

4. 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.'

[Mother's Day]

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

### 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.

#### Q1. Define Spreadsheet OpenOffice Calc.

Spreadsheets are used in various fields such as banking, finance, accounting, and education.

#### Following are some of the popular uses of spreadsheets –

- Managing financial data such as bank account information, budgets, transactions, billing, and receipts.
- Handling inventory, reviews, employee information, surveys, etc., using data entry forms.
- Tracking student performance by calculating grades and other relevant information such as attendance, highest score, and lowest score.
- Creating lists of items which may not be numeric such as student list, grocery list.
- Managing company information such as profit and sales by creating graphs from the data.

#### Q2. Use of referencing in Calc.

##### Relative Addressing

The method of addressing instructions and data sections by specifying their location in reference to the location counter or to some other symbolic location is known as relative addressing. This kind of addressing is never done in bits, words, or instructions; it is always done in bytes.

##### Absolute Addressing

When you wish to fix the location of a cell, you utilise absolute references. A dollar sign is placed before each of these cell references. You are fixing the value of a specific cell reference by doing this. For instance, the formula will become = B1+B2 if you enter = A1+A2 into A3 and duplicate it to another location: B3.

##### Mixed Addressing

Various references An absolute reference and a relative reference combine to provide a mixed reference in Excel. This indicates that a portion of the reference, either the row or the column, is fixed, while the remaining portion is relative.

#### Q3. Sorting and Filtering Data in Calc

**Sorting** – The Sort Ascending and Sort Descending commands on the Standard toolbar, as well as the Data menu, which opens a dialogue box with extra options, make it simple to arrange data in Calc.

**Steps to sort data in ascending order using the Standard Toolbar –**

**Step 1:** Select the cells you want to sort.

**Step 2:** Click on the Sort Ascending icon on the Standard Toolbar.

Data will be sorted according to the first column of the selected cells.

**Steps to sort data in ascending order using the Sort command –**

**Step 1:** Select the cells you want to sort.

**Step 2:** Click on the Sort option in the Data menu which opens a dialog box.

**Step 3:** You can change the select the column based on which you want to sort the data. Also, you can select the Ascending or Descending option.

**Step 4:** Click on OK.

**Filtering Data** – Applying a filter means displaying data based on some conditions or filters. Filters can be applied by using the Filter option in the Data menu.

Three types of filters can be applied – AutoFilter, Standard Filter and Advance Filter. Let us study AutoFilter and Standard filter in detail –

**AutoFilter** – This filter is added on the topmost row of the selected data in the form of a drop down list from which you can select data to be displayed or in other words apply filters.

**Step 1:** Select the data.

**Step 2:** Select Data menu and click on Filter->AutoFilter.

**Step 3:** On the topmost cell of each column you will observe drop-down boxes.

**FMM-**

Instructions:

1. Do the work in fair notebook.

2. All the questions are of 3 marks.

Q.1 What is cut-off price?

Q.2 What is a Price Band in a book build IPO?

Q.3 Who decides the price band?

Q.4 What is Rights issue?