

ADARSH PUBLIC SCHOOL

C-BLOCK, VIKAS PURI, NEW DELHI

HOLIDAY'S HOMEWORK

SESSION: 2026-27

CLASS: XI

GENERALINSTRUCTIONS

- All the questions are compulsory.
- The holidays' homework must be done in a very neat and presentable manner.
- The child will be assessed on the basis of presentation, neatness, completion of all the given questions and timely submission.
- Revise all the syllabus covered in the class.
- The homework of all the subjects is to be done in the respective notebooks or as specified.
- The holidays' homework is to be submitted on 1st July, 2027.

ENGLISH

A. WRITING SKILLS

1. Write an article on each of the following topics given below in 120-150 words:

- Artificial Intelligence ruling the world
- Cognition v/s Intelligence

2. Draft a poster on the following topics in about 50 words

- As President of Society for Welfare of Animals, design a poster for the general public, appealing for better treatment to animals.
- You are the Marketing Manager of Vision India. Design a poster creating awareness about the importance of donating one's eyes.
- On the behalf of the Department of Environment .Draft a poster on the adverse effects on the environment due to garbage burning.

B. Answer the following questions in 30-40 words:

1. How did the grandmother react to the snapping of the bond with her grandson?
2. "My grandmother accepted her seclusion with resignation". What thoughts were running in the author's mind during this time?
3. What do you understand with the expression 'good old days'?
4. Why did people find difficult to discuss anything with Khosrove?
5. Why was Aram's mother kind to John Byro?.

C. Read the extracts given below and answer the questions that follow:

- a. The cardboard shows me how it was

When the two girl cousins went paddling.

Each one holding one of my mother's hands

And she the big girl—some twelve years or so.

- i) What does the word 'cardboard' denote in the poem? Why has this word been used?
- ii) Who were the three girls captured in the photograph?
- iii) Where had they gone for outing/paddling?
- iv) Name the poem and the poet.

b. Now she's been dead nearly as many years

As that girl lived. And of this circumstance

There is nothing to say at all.

Its silence silences

- i) What does 'this circumstance' refer to?
- ii) What does the last line indicate about the emotional state of the poet?
- iii) Identify the poetic device in the last line?

D. Answer the following questions in 120-150 words:

1. Describe the changing relationship between the author and his grandmother. Did their feeling for each other change?
2. Did the boys return the horse because they were conscience-stricken or because they were afraid?
3. Justify the aptness of the title, A Photograph.

MATHEMATICS

1. Evaluate : $\sqrt{-25} \times \sqrt{-4}$
2. Express $(\sqrt{2+3i})(\sqrt{7-5i})$ in the standard form.
3. Find the value of $(-5 + \sqrt{-7})^2 + (-5 - \sqrt{-7})^2$
4. Find the modulus of (i) $(3 - 4i)(-5 + 12i)$ (ii) $(2 - 3i) / (-1 + 5i)$
5. Write the conjugate of $(2 + 3i)(1 - 2i)$ in the form of $a+bi$; $a, b \in \mathbb{R}$.
6. Express the following in the form of $a+ib$. Also find their conjugate:
(i) $\frac{4+5i}{2-i}$ (ii) $\frac{3-i}{3+i}$
7. Find the modulus of the following complex numbers:
(i) $2\sqrt{3} - 5i$ (ii) $5 - 3i$
8. Find the multiplicative inverse of $(6+\sqrt{5}i)$
9. Solve $|x-1|/x+2 < 1$
10. Let $U = \{1,2,3,4,5,6,7\}$, $A = \{2,4,6\}$, $B = \{3, 5\}$ and $C = \{1,2,4,7\}$, verify that:
(i) $(A \cup B) \cup C = A \cup (B \cup C)$ (ii) $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$.
11. If $U = \{4,8,12,16,20,24,28,32,36,40\}$, $A = \{4,12,20,24\}$ and $B = \{20,24,28,36\}$. Check that
(i) $(A \cup B)' = A' \cap B'$ (ii) $(A \cap B)' = A' \cup B'$

12. Write the following intervals in set-builder form: (i) (-2,0) (ii) [6,12]
13. Solve : $5x-7 < 3(x+3)$, $1-3x/2 \geq x-4$
14. Find all the subsets of $\{1,3,5\}$
15. Solve the following in equation: $x+3/x-2 \leq 2$
16. Find a complex number z satisfying the equation $z + \sqrt{2}|z+1|+i=0$
17. Solve: $7-3x \leq 25$, (i) when x is a real number (ii) when x is an integer.
18. Solve : $2(2x+3)-10 \leq 6(x-2)$
19. Find all pairs of consecutive even positive integers, both of which are larger than 5, such that their sum is less than 23.
20. Solve: $3(x+2)-10 < 6(x-1)$, $\frac{2x-3}{4}+6 \geq 2+\frac{4x}{3}$. Express the result on number line.
21. Complete the first five Lab Activities (mentioned in the syllabus) in your Mathematics Practical File.
22. Revise Chapter 1-Sets, Chapter-4 Complex Numbers and Chapter 5 Linear Inequalities.

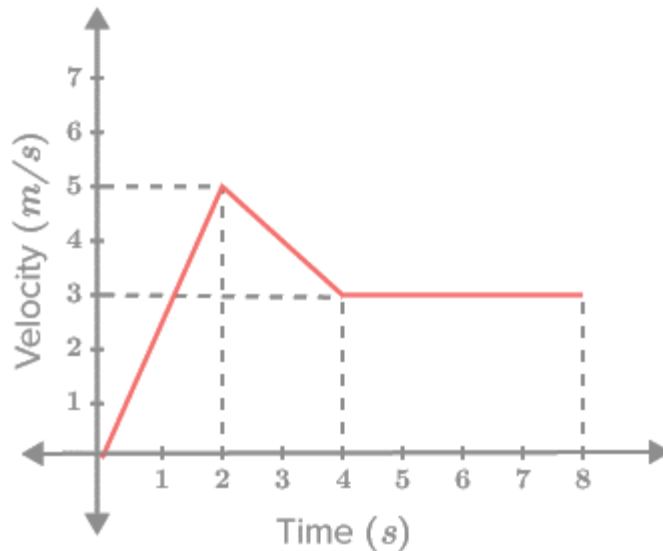
PHYSICS

A) Do the following assignment in your register.

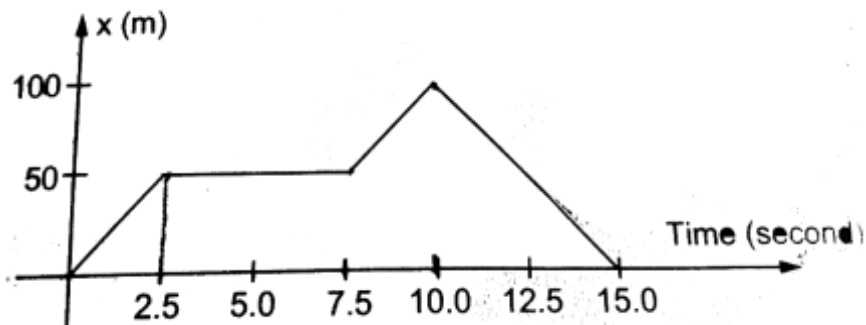
1. The mass of a body is 275.32 g and its volume is 36.41 cm³. Express its density up to appropriate significant figures.
2. Using the dimensional analysis, find the value of n in the expression:

$$\int \frac{dx}{\sqrt{2ax-x^2}} = a^n \sin^{-1}\left(\frac{x}{a} - 1\right)$$
3. The kinetic energy K of a rotating body depends on its moment of inertia I and its angular speed ω . Assuming the relation to be $K = kI^a\omega^b$ where k is a dimensionless constant, find a and b . Moment of inertia of a sphere about its diameter is $\frac{2Mr^2}{5}$.
4. A small spherical ball of radius r falls with velocity v through a liquid having coefficient of viscosity η . Find the viscous drag F on the ball assuming it depends on η , r and v . Take $k = 6\pi$.
5. Taking force, length and time to be the fundamental quantities, find the dimension of

(a) density	(b) pressure
(c) momentum	(d) energy
6. Velocity of a cyclist changes as shown in the following graph.
 - (i) Determine the average acceleration from $t=2s$ and $t=6s$.
 - (ii) Determine the cyclist's displacement from its initial position at $t = 0$ sec to $t = 8$ sec



7. If velocity $v = (t+2)(t+3)$ m/s then find (a) acceleration at $t=1$ sec (b) displacement of particle at the end of 3sec, if particle starts from position 2m at $t=0$ sec.
8. A boy throws a ball in air at 60° to the horizontal along a road with a speed of 10 m/s (36km/h). Another boy sitting in a passing by car observes the ball. Sketch the motion of the ball as observed by the boy in the car, if car has a speed of (18km/h). Give explanation to support your diagram.
9. Fig. shows the graph of the x-coordinate of a particle going along the x-axis as a function of time. Find (a) the average velocity during 0 to 10s, (b) instantaneous velocity at 2, 5, 8 and 12s.



10. A ball is dropped from a height h . If it takes 0.200 s to cross the last 6.00 m before hitting the ground, find the height from which it was dropped. Take $g = 10\text{m/s}^2$.
11. The diagonals of a parallelogram are represented $\vec{R} = 3\hat{i} + 2\hat{j} - 7\hat{k}$ and $\vec{R} = 5\hat{i} + 6\hat{j} - 3\hat{k}$. Find the area of the parallelogram.
12. The benches of a gallery in a cricket stadium are 1 m wide and 1 m high. A batsman strikes the ball at a level one meter above the ground and hits a mammoth sixer. The ball starts at 35 m/s at an angle of 53° with the horizontal. The benches are perpendicular to the plane of motion and the first bench is 110 m from the batsman. On which bench will the ball hit?
13. A person is standing on a truck moving with a constant velocity of 14.7 m/s on a horizontal road. The man throws a ball in such a way that it returns to the truck after the truck has moved 58.8 m. Find the speed and the angle of projection. (a) as seen from the truck (b) as seen from the road.
14. When a vector $\vec{A} = 2\hat{i} + 3\hat{j} + 2\hat{k}$ is subtracted from \vec{B} , it gives a vector equal to $2\hat{j}$. Find the magnitude of vector \vec{B} .
15. The position of a particle is given by $r = (3.0t\hat{i} - 2.0t^2\hat{j} + 4\hat{k})$ m where t is in seconds and the coefficients have the proper units for r to be in meters. (a) Find the velocity and acceleration vector. (b) What is the magnitude of velocity of the particle at $t=2$ sec?

B) Prepare an Investigatory Project on one of the topics mentioned below:

1. Application of vectors and scalar quantities and its significance.
2. Rocket propulsion and application of Newton's Law
3. Simple Harmonic motion
4. Center of mass
5. Friction- advantages, disadvantages in day to day life, its law and applications.
6. Bernoulli's principle and its applications.
7. Capillary rise (find height for different liquids)
8. Pascal's law (hydraulic lift)
9. Projectile motion (range and angle)
10. Moment of inertia and angular velocity (time taken for 10 rotations in rolling chair with hands stretched and without stretched)
11. Rolling of body on an inclined plane (time taken to reach bottom for sphere, cylinder, disc, ring, hollow sphere, hollow cylinder- any 3)
12. Terminal velocity of various objects (use swimming pool and various objects of different densities)
13. Newton's law of cooling (using or without using calorimeter)
14. Time period of pendulum (vary amplitude, mass, length)
15. Finding g using pendulum
16. Finding g by free fall (drop a ball from a known height and measure time to reach ground. Use $h=1/2gt^2$ to find g)
17. Find coefficient of friction of 3 surfaces using blocks and pulleys)
18. Verifying equation of continuity (vary area and find range which is similar to velocity)
19. Time period of oscillation of spring for different masses
20. Time period of oscillation of two same springs in series and parallel combination
21. Finding angle of friction by using blocks (no need of pulleys) and surface which can be inclined.
Hence find coefficient of friction.
22. Comparing the viscosity of different fluids
23. Archimedes' Principle (applications)

NOTE: Students can work on any topic of his/her choice from the list given above or any topic related to the physics syllabus of class XI.

CHEMISTRY

1. Answer the following questions in class notebook-

1. Differentiate between Thomson's model and Rutherford's Model of atom.
2. Convert the following temperature scales-
 - a. 45°C to $^{\circ}\text{F}$
 - b. 310 K to $^{\circ}\text{C}$

15. Define quantum numbers. Explain in brief how are different quantum numbers related to each other?

2. Do ANY ONE of the following activities for Chemistry AIL (Art Integrated Learning) project.

1. On an A3 – sized sheet, make a POSTER on ANY ONE of the following:

- a) Photoelectric effect
- b) Nobel Laureates of Chemistry
- c) Developments leading to the Bohr's model of atom

2. On an A4 sized sheet, prepare a creative Mind Map or a Formula sheet for the concepts studied in Chapters 1 and 2 separately.

3. Prepare an investigatory project on any one of the topic mentioned below:

1. Study of the presence of oxalate ions in guava fruit at different stages of ripening.
2. Determination of caffeine in tea samples.
3. Study of quantity of casein present in different samples of milk.
4. To study the content of ascorbic acid in citrus fruit.
5. Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.
6. Drug addiction and abuse
7. Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.)
8. Antacids
9. Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
10. Study the effect of metal coupling on the rate of corrosions.
11. Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc.
12. Determination of the contents of the cold drink.
13. Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom).
14. Soaps and detergents.
15. Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chilli powder and pepper.
16. Measuring solubilities of saturated solutions.
17. To study the surface chemistry of colloidal solution.

BIOLOGY

A) ANSWER THE FOLLOWING QUESTIONS –

Very short answer questions

1. What is tonoplast?
2. Why is mitochondria called semiautonomous organelle?

3. What are different types of Amino acids? Give their examples.
4. What is G₀ (quiescent) stage of cell cycle?

Short answer questions

5. What are kinetochores? What is their function?
6. What are inclusion bodies? Give two examples of them.
7. What are plasmodesmata? What is their function?
8. Differentiate between integral proteins and peripheral proteins.
9. Describe the important properties of enzymes.
10. Draw the structure of Glucose, Alanine, Ribose and Serine.

Long answer questions

11. Explain the fluid mosaic model of plasma membrane.
 12. Give reason why starch is stained blue with iodine, but cellulose is not, though both are polymers of glucose?
 13. What are the two basic phases of cell cycle? Draw the diagram of cell cycle.
 14. Describe the primary, secondary and tertiary structure of proteins with the help of diagram.
 15. What is a fatty acid? Give two examples. What is trihydroxypropane commonly called? Write its structural formula.
- B)** Prepare a Powerpoint presentation on Mitosis.
- C)** Complete the practical file discussed in the class.

COMPUTER SCIENCE

General Instructions :

- *Do the questions 1 – 18 in notebook neatly*
 - *Perform the question number 19 – 28 in Python software and paste the code and output after writing each question in a word file. Submit the work in a file with printouts of each question on a separate page.*
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1. What is an algorithm? Also state its 2 advantages.
2. Define flowchart.
3. Draw the symbol of flowchart along with its purpose.
4. Draw the following flowchart
 - Multiply 2 number
 - A person can vote or not
 - Area of triangle
 - Sum of first 20 natural no
 - Count and print 1 to 100
5. Who is the developer of Python?

6. State any 4 advantages of Python.
7. 'Python is an interpreted high level language'. Explain
8. What is the difference between interactive mode and script mode in Python.
9. Define Token.
10. State the rules of identifier in Python programming.
11. Define keyword.
12. Define operators and explain its types.
13. Define expression.
14. Explain the concept of dynamic typing in Python with an example.
15. What is datatype and list its types in Python.
16. Mention the datatype in following examples
 - -15
 - 3000
 - 147.91
 - 0.5E-04
 - "computer"
- 17 What do you understand by the concept of mutable and immutable types?
18. Evaluate the following
 - a) $7*((8/5)//2)$
 - b) $(87//int(5.0))==(87//5.0)$
 - c) $(17\%5.0)==(17\%5.0)$
 - d) $(5<10)$ and $(10<5)$ or $v(3<18)$ and not $8<18$
19. Write a program to input name and print <<name>> print it with a Welcome message and print it.
 <<name>> Welcome to computer science with python
20. Write a program to add three numbers.
21. Write a program to accept the length and breadth of a rectangle & display its area and perimeter.
22. Write a program to calculate area and circumference of a Circle where radius is given by the user.
23. Write a program to input two numbers and swap them.
24. Write a program to accept principal, rate and interest by the user and calculate simple interest.
25. Write a program to get the basic salary of an employee and calculate gross salary according to given conditions.
 - a) Basic salary<=10000: HRA=20%, DA=80%
 - b) Basic salary is between 10001 to 20000: HRA=25%, DA=90%
 - c) Basic salary>=20001: HRA=30%, DA=95%

26. Write a program to find the grade of a student when grades are allocated as given below. Get marks in 5 subjects, find grade according
- a) Above 90% =A
 - b) 80% to 90% =B
 - c) 70% to 80% =C
 - d) 60% to 70% =D
 - e) Below 60% =E
27. Write a program that asks a user for a number of years and then prints out the number of days, hours, minutes and seconds in that number of years.
28. Write a Program to obtain x,y,z from user and calculate expression : $4x^2+3y^3+9z$.

PSYCHOLOGY

1. Complete the “**Introduction to Psychological Testing**” in your Practical file.
2. **Project work:** Choose any one topic from the list given. The project should be:
 - Handwritten on A4 size coloured sheets.
 - Neatly presented and creatively decorated (you may use internet pictures, newspaper clippings, etc.).
 - Based on any one or more methods like observation, survey, interview, questionnaire, case study, movie analysis, or secondary research.
 - Submitted in a ring-binder file.

Topics include:

- Bullying/Cyberbullying
- Mental health and wellbeing
- Impact of social media on the youth today
- Altruism and its impact on wellbeing
- Peer Pressure
- Anger management
- Sleep Hygiene
- Changing gender roles and stereotypes
- Cooperation and Competition
- Compliance and Obedience

You may also choose a topic from the NCERT syllabus such as Human Development, Learning, Memory, Motivation, Perception, Attention, or Thinking.

Cover page of the project must include:

Subject and heading: Psychology Project File

- Project topic chosen by you

- Your name
- Class and section

3. Answer the following questions in your register :-

- How can psychology be used in our everyday life? Give two examples.
- Discuss any two branches of psychology along with their respective characteristics.
- Define objectivity. Why is it important while conducting a scientific research?
- Compare the differences between a counsellor and a clinical psychologist.
- Riya, a psychology student decided to study the behaviour of children during playtime in a school. She visited the school and with the permission from the parents and principal she saw the students for 30 minutes everyday for a week. Riya did not participate in their activities and saw them at a distance. Later, she analysed everything she saw at the school.
 - Identify the type of observation method Riya used.
 - Mention any one advantage and one limitation of the method used.
 - What other methods can Riya use to understand behaviour?

4. Prepare a poster on A-3 size sheet on the topic “**Psychology in everyday life.**”

ECONOMICS

Section A: Solve the following numerical in your register

- The average weight of a group of 25 boys was calculated to be 52 kg. It was later discovered that one weight was misread as 45 kg instead of 54 kg. Calculate the correct average.
- The following table shows marks obtained by the students of a class in their test in English. Calculate arithmetic mean using step-deviation method.

Marks	0-10	10-20	20-30	30-40	40-50
Number of students	20	24	40	36	20

- The following table gives distribution of marks secured by some students. Calculate the median marks secured by the students.

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Number of students	42	38	120	84	48	36	31

- Find the median of the following series.

Size	2	3	4	5	6	7	8	9	10
Frequency	2	3	8	10	12	16	10	8	6

5. The mode and the mean are 26.6 and 28.1 respectively in an asymmetrical distribution. Find out the value of median.

6. Calculate mode from the following data.

Class Interval	0-10	10-20	20-30	30-40	40-50
Frequency	2	5	7	5	2

7. Calculate mean, median and mode from the following data

Class Interval	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	18	37	45	27	15	8

8. Mean of 100 observations is found to be 40. If at the same time of computation two items are wrongly taken as 30 and 27 instead of 3 and 72. Find the correct mean.

9. Calculate the weighted mean from the following data

Marks	60	75	63	59	55
Weight	2	1	5	5	3

10. The median of the following income distribution is Rs.41.80. Two frequency values are missing. Find these missing figures.

Income in (Rs.)	Frequency
0-10	5
10-20	20
20-30	?
30-40	25
40-50	50
50-60	?
60-70	5
Total	287

Section B: Answer the following questions

1. Discuss Central Problems of an Economy.
2. Explain merits and demerits of Arithmetic Mean and Median.
3. Suppose an economy produces only two goods, namely wheat and cloth, with its available resources. Following table shows different possibilities of production of wheat and cloth. Calculate the marginal opportunity cost of cloth at various combinations. Also draw the production possibility curve.

Cloth(Thousand)	0	1	2	3	4
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Wheat(Lakh)	100	90	70	40	0
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4. Lot of people died and many factories destroyed because of severe earthquake in India. How will it affect the country's PPC?
5. Distinguish between Microeconomics and Macro Economics
6. Complete assignment sheet given in class.

Section C: Prepare project on any one of the explained topics as discussed and allotted in the class (initial 20 pages).

BUSINESS STUDIES

- I. Gather important information about any form of business enterprise from your locality regarding its formation, form of organisation, location, size, risk or profits, expansion, growth, types of products manufactured, social objectives performed and major competitors in the market. Assimilate the information collected through internet in the form of assignment and write an appropriate conclusion to your study in a form of project.
- II. Answer the following questions in your registers
 1. Ram, Shivam, Satyender and Deepak are partners in a partnership firm. Ram and Satyender take active part in the operation of business whereas Deepak has contributed in Capital but do not take part in day to day activities of the business. Shivam is a nominal partner. All four enter into a partnership for a specified time period and also make written agreement to govern the partnership but they did not get the firm registered.
 - a. What is meant by nominal partner?
 - b. Which type of partnership is there between the partners in above?
 - c. What is written agreement between the partners called?
 - d. What type of partners Deepak and Ram are?
 - e. Give two merits of getting a firm registered.
 2. Explain the meaning and features of three types of economic activities.
 3. Mr James wants to start a business in a remote village in India with the main purpose to provide employment opportunities to rural people. Identify and explain the objectives of business mentioned in this case.
 4. If registration is optional, why do partnership firms willingly go through this legal formality? Explain the reason with procedure to get the firm registered.
 5. A person sells his domestic furniture at a profit, will it be considered a business? Explain the characteristics of business which is being stressed upon.

6. Which form of business is suitable for following types of business and why?

(a) Beauty Parlour	(b) Coaching Centre for science students
(c) Hotel	(d) Shopping mall
(e) Restaurant	(f) Small repair business

7. Define the term commerce. How it helps to remove hindrances faced by a businessman while doing business.

8. Aman ,Kamal,and Sidharth are friends. They have just completed a fashion designing course. They wish to start a business together. They have Rs.10, 00,000 savings put together and are planning to take a bank loan of additional Rs. 10 lakhs. They have found a prime location in Karol Bagh where they can set their boutique. They decide that they will initially not take very big orders. Based on this information, quote the lines associated with factors affecting the decision to start a business and classify them. Also elaborate each factor identified.

9. What are the limitaions of a Joint Hindu form of business? Explain.

10. Differentiate between
 - a. Partnership and Joint Hindu family business
 - b. Private and public company's
 - c. Deal and trade.

11. Tea is mainly produced in Assam, while cotton in Gujarat & Maharashtra but they are required for consumption in different parts of the country. How can this hindrance of place be removed? Also under what business activity will it be categorised.

Note; Do all the question in your register.

ACCOUNTANCY

1. What is the end product of financial accounting?
2. Write short notes on
 - a) Cost accounting
 - b) Management accounting
3. Differentiate between Bookkeeping and Accounting on the basis of Scope, Objective and skills required.
4. What is meant by "Window Dressing" in Accounting?
5. "Only financial transactions are recorded in accounting." Explain this statement.
6. "If information is not relevant it is useless." Do you agree with this statement? If yes, why?
7. "Accounting information should be comparable." Do you agree with this statement? Give two reasons.
8. Describe the informational needs of following external users:

(a) Investors	(b) Banks
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9. What is Income?
10. Distinguish between
- a) Capital Expenditure & Revenue Expenditure
 - b) Trade Discount & Cash Discount
11. Give two examples of each of the following:
- a) Tangible assets
 - b) Intangible assets
 - c) Short-term liabilities
12. What is stock? Distinguish between Opening stock and Closing stock.
13. Define
- a) Creditor
 - b) Drawings
14. Briefly explain the concept of Deferred Revenue Expenditure.
15. Explain in brief-
- a) Consistency assumption
 - b) Accrual assumption
16. "Business units last indefinitely." Mention and explain the concept on which the statement is based.
17. "Only financial transactions are recorded in accounting." Explain the statement.
18. Discuss the Accounting Convention based on the premise 'Do not anticipate profits but provide for all losses.'
19. Define Accounting. Explain four objectives of Accounting.
20. On 31st March, 2022, total assets and external liabilities were ₹1, 00,000 and ₹3,000 respectively. During the year, the proprietor had introduced additional capital of ₹10,000 and had withdrawn ₹6,000 for personal use. He made a profit of ₹10,000 during the year. Calculate the capital as on 1st April, 2021.
21. Calculate the total assets if Capital is ₹40,000; Creditors are ₹25,000; Revenue during the period is ₹50,000 and Expenses during the period are ₹40,000.
22. Give an example for each of the following types of transactions:
- a) Increase in one asset, decrease in another asset.
 - b) Increase in asset, increase in liability.
 - c) Decrease in asset, decrease in liability.
 - d) Decrease in asset, decrease in owner's capital.
23. Develop an Accounting Equation:
- a) Started business with cash ₹1, 00,000.
 - b) Purchased goods for cash ₹ 5,000 and on credit ₹ 2,000.
 - c) Purchase of machinery for cash ₹20,000.
 - d) Depreciation on machinery ₹2,000.
 - e) Salaries outstanding ₹ 1,000.
 - f) Provide interest on capital @ 5% p.a.
24. Develop an Accounting Equation:
- a) Started business with cash ₹60,000.

- b) Rent received ₹ 2,000.
- c) Accrued interest ₹500.
- d) Commission received in advance ₹ 1,000.
- e) Amount withdrawn ₹ 5,000.

25. Mr. Dinesh started business for buying and selling of shoes with an investment of ₹16,00,000. Out of these he paid ₹8,00,000 for purchase of shoes, ₹1,00,000 for furniture, ₹1,00,000 for computers and the remaining amount was deposited in bank. He sold some of the ladies and kids shoes for ₹6,00,000 for cash and some shoes to Mr. Sunil a retailer for ₹3,00,000 on credit. Subsequently, he bought men's shoes of ₹4,00,000 from Mr. Mohan. In the first week of the next month, a fire broke out in his office and stock of shoes worth ₹2,00,000 was destroyed. Later on, some shoes which cost ₹2,40,000 were sold for ₹2,60,000. Expenses paid during the same period were ₹30,000, Mr. Dinesh withdrew ₹40,000 from business for his domestic use. From the above, answer the following:

- a) What is the amount of capital with which Mr. Dinesh started the business?
- b) What fixed assets did he buy?
- c) What is the amount of goods purchased?
- d) Who is the creditor and how much is payable to him?
- e) Who is the debtor and how much amount is receivable from him?
- f) What is the total amount of expense?
- g) What is the amount of drawings of Mr. Dinesh?

POLITICAL SCIENCE

1. Make a note on the Assembly Election held in 2026 with reference to Assam, Tamilnadu, Kerala and West Bengal.

Assignments Questions:

- 2. Write a note on EPIC, NOTA, EVM,
- 3. Name the National Parties of India. Draw its symbols.
- 4. Match the following

- | | |
|--------------------------------|----------------------------|
| • Prohibition of Bonded labour | Right to Equality |
| • Freedom of Movement | Right against Exploitation |
| • Abolition of Untouchability | Constitutional Remedies |
| • Habeas Corpus | Right to Freedom |

5. Which of these is not a function of the Constitution:

- a) It gives a guarantee of the rights to the citizens.
- b) It marks out different spheres of power for different branches of government.
- c) It ensures that good people come to power.

6. The preventive detention comes under Right to Equality. Correct the statement.

7. The Constitution of India is a bag of borrowing. Justify.
8. What is the difference between Fundamental Rights and Directive Principles of State Policy?
9. What are the drawbacks of Indian Electoral System?
10. Explain the cartoon given on page number 37 and 61.
11. In _____, the _____ amendment to the constitution inserted Fundamental Duties of Citizens.
12. What is given in Article 324 and 368 of the Indian constitution?
13. Explain these given terms:
 - a) Referendum
 - b) Bills of Rights
 - c) Traffic of human beings
 - d) Delimitation Commission
14. Make an informative project on any one of the following topics given accordingly:
 - a) Rights in the Indian Constitution
 - b) Election and Representation
 - c) Executive
 - d) Legislature
 - e) Federalism
 - f) Judiciary
 - g) Local Government
 - h) Constitution why and how, Constitution as a living document, Philosophies of the Indian Constitution.

The project must have pictures, illustrations and data.

Cover page, Certificate, Acknowledgement, Index/ Content, content from NCERT, Bibliography

HISTORY

1. What are the discoveries that help us to understand early human history?
2. What is a fossil? How can it be dated?
3. Why many scholars were reluctant to accept the evidence of fossils etc. for the origin of modern human?
4. Define Primates? Collect and paste few images of early mam.
5. Describe various stages in the evolution of modern humans with examples.
6. Describe the methods of obtaining food by early humans.
7. Enlist the evidences through which you can prove different types of residences used by early humans.
8. Write an account of any cave painting. Collect and paste related pictures.

9. What do you know about the Hadza community?
10. What are the advantages of the discovery of the wheel to early man?

Project Work

Make an informative and creative project on any of the following topics

- Mesopotamian Civilisation
- Modernisation of Japan and China
- Changing Cultural Traditions
- The Great Roman Empire.
- The Three Orders
- Nomadic Empire
- Displacing Indigenous People

ENTREPRENEURSHIP

Do all the questions in register:

1. Which of these actions of an entrepreneur will most likely result in creative destruction?
 - a. Developing a new product
 - b. Taking over a competitor's business
 - c. Issuing shares to individuals and institutions
 - d. Lowering prices of your product or service
2. Which of these theories involve taking a moderate amount of risk as a function of skill and not chance?
 - a. Need for achievement
 - b. Need for affiliation
 - c. Need for authority
 - d. Need for independence
3. Which of these is not a category of external forces that affects a business?
 - a. Competitive forces
 - b. Technological forces.
 - c. Economic forces
 - d. Socio-economic forces
4. Entrepreneurship Development Program is helpful for:
 - a. First-generation entrepreneurs
 - b. Future generation entrepreneurs
 - c. Existing Entrepreneurs
 - d. None of the above
5. Explain any four Commercial functions of an entrepreneur.
6. Explain any three Managerial functions of an entrepreneur.

7. Mehul wants to start a textile unit near Gurgaon. Discuss the commercial function which will require to plan and perform for the same.
8. Why are entrepreneurs called agents of progress for a nation? What role do they play Why are entrepreneurs called agents of progress for a nation? What role do they play in the Nation's development?
9. "Innovation is the hallmark of entrepreneurship". Why is "innovation" referred as the basic function of an entrepreneur?
10. Karan, a rural boy, identifies the potential of organic farming in the village. He meets the zonal agricultural officer, who, looking at the determination of this 20 years old, helps him arrange and procure multiple resources required for his farm land. Then Karan takes a loan of Rs. 50,000/- from SBI as his seed money of Rs. 10,000/- is not enough to cater the requirement. Karan ties up with a nearby city's vegetable shop owner to sell his yield. His hard work pays and the organic vegetables are a hit. This organic vegetable producer exhibits to be a good entrepreneur with good entrepreneurial skills. Do you agree? Justify giving reasons for your answer



ELEPHANT POO PAPER...

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available in India*

Project: Complete the project

1. Conduct a case study of any entrepreneurial venture in your nearby area. (as discussed in class)

हिंदी

1. निम्नलिखित विषयों पर अनुच्छेद लिखें I

- I) मेक इन इंडिया
- II) मोबाइल बिना सब सूना
- III) पहला सुख निरोगी काया
- IV) हिंदी हमारी पहचान

2. पत्र लेखन

- I) रेल द्वारा बुक करवाकर भेजा गया घरेलु सामान आपके निवास के निकटस्थ स्टेशन तक नहीं पहुंचा है, इसकी शिकायत करते हुए रेल प्रबंधक को एक पत्र लिखिए I
- II) माननीय प्रधानमन्त्री को पत्र लिखकर अपने मन के किसी महत्वपूर्ण विचार का उल्लेख करते हुए उस पर 'मन की बात' के आगामी प्रसारण में चर्चा करने का निवेदन कीजिये I

3. निम्नलिखित प्रश्नों के उत्तर 'अभिव्यक्ति और माध्यम' के आधार पर दें I
- I) संचार जीवन की निशानी है I स्पष्ट कीजिये I
 - II) दुनिया एक गांव में बदल गई है I पाठ के आधार पर स्पष्ट कीजिये I
 - III) संचार के प्रकार बताएं व प्रत्येक प्रकार की उदाहरण सहित परिभाषा दीजिये I
 - IV) संचार की प्रक्रिया के तत्व कौन-कौन से हैं ? विस्तारपूर्वक बताएं I
 - V) जनसंचार माध्यमों में द्वारपाल की भूमिका क्या है ? स्पष्ट कीजिये I
 - VI) जनसंचार के कौन-कौन से कार्य हैं ? स्पष्ट कीजिये I
 - VII) लोकतंत्र में जनसंचार माध्यमों का प्रभाव बताएं I
 - VIII) जनसंचार के दुष्प्रभावों पर प्रकाश डालिये I
 - IX) पत्रकारिता के पहलुओं के बारे में बताएं I
 - X) पी. सी . जोशी समिति ने दूरदर्शन के कौन-कौन से उद्देश्य बताए हैं ?
4. पूर्वनिर्धारित परियोजना कार्य पूर्ण करें I (ए - ४ साइज शीट पर करेंI)
5. पठित पाठों को पूर्व मध्य मूल्यांकन हेतु याद कीजिए I
- नोट- सभी कार्य विद्यालय की कार्य पुस्तिका में करना है I

ARTIFICIAL INTELLIGENCE

General Instructions :

- *Do the questions 1 – 10 in notebook neatly*
 - *Perform the question number 11 – 17 in Python software and paste the code and output after writing each question in a word file. Submit the work in a file with printouts of each question on a separate page.*
-

1. Define Artificial Intelligence.
2. Write any four applications of Artificial Intelligence.
3. Explain all three domains of AI.
4. Differentiate between Machine Learning and Deep Learning.
5. Differentiate between Supervised Learning and Unsupervised Learning.
6. Define the following:
 - i. Weak/Narrow AI
 - ii. Strong/Broad AI
 - iii. Super AI
7. State any 4 advantages of Python.
8. What is the difference between interactive mode and script mode in Python.
9. State the rules of identifier in Python programming.
10. Mention the datatype in following examples

- -15

- 3000
- 147.91
- 0.5E-04
- “computer”

11. Write a program to input name of the user and print <<name>> with a Welcome message.

<<name>> Welcome to computer science with python

12. Write a program to add three numbers.

13. Write a program to accept the length and breadth of a rectangle & display its area and perimeter.

14. Write a program to calculate area and circumference of a Circle where radius is given by the user.

15. Write a program to accept principal, rate and interest by the user and calculate simple interest.

16. Write a program to find the grade of a student when grades are allocated as given below. Get marks in 5 subjects, find grade according

- Above 90% =A
- 80% to 90% =B
- 70% to 80% =C
- 60% to 70% =D
- Below 60% =E

17. Write a Program to obtain x,y,z from user and calculate expression : $4x^2 + 3y^3 + 9z$.

PHYSICAL EDUCATION

Make a Record File containing the following:

- Practical-1: Labelled diagram of 400 M Track & Field with computations.
- Practical-2: Describe Changing Trends in Sports & Games in terms of changes in Playing surface, Wearable gears, Equipment, Technological advancements.
- Practical-3: Labelled diagram of field & equipment of any one IOA recognized Sport/Game of choice.

PAINTING

VISIT THE NATIONAL MUSEUM & GALLERY OF MODERN ART

Observe carefully the traditional Indian Sculptures and paintings displayed there.

COMPLETE YOUR ART PORTFOLIO with neat presentation and creative work related to your course curriculum , including –

STILL LIFE COMPOSITION

SCENE COMPOSITION

NOTE – Use A2 size sheets and portfolio.