

CLASS XI HOLIDAY HOMEWORK SESSION 2025-26



MONTH OF JUNE BROUGHT LONG, HOT DAYS AND NOW WE HAVE OUR SUMMER HOLIDAYS SCHOOL IS CLOSED AND NO SET RULES WAKING UP LATE AND GOING TO POOL. LITTLE HOMEWORK, EASY TO BE DONE PLAYING WITH FRIENDS AND LOTS OF FUN, BEAUTIFUL TIME COMES ONCE IN A YEAR, SUMMER HOLIDAYS ARE BEST DAYS EVER!!

MESSAGE FROM PRINCIPAL'S DESK

Dear Parents,

Vacation is an excellent time to learn new skills. It is a welcome break for the children to enjoy and explore things in their own way and do some creative work. This is the time for them to be close to family & friends. Take them on walks, give them some responsible job in the family (like taking care of grandparents) to instil values, involve them in daily chores, arrange a short family trip, bring them emotionally around & give them chances to take small decisions, so that they work on their overall personalities too. Seeking your cooperation as always as teamwork is dreamwork. Here are some interesting and fun-filled assignments for the children to learn and keep them occupied during the holidays. These assignments have been designed in a way children know their best about themselves. We would appreciate if the children do these assignments on their own. Help and guidance may be given wherever required.

Blessings.

MS. PARUL SARASWAT

Principal

INSTRUCTIONS FOR COMPILATION OF HOLIDAY HOMEWORK

- All homework is to be done on A4 size sheets and compiled in a hard bound file / folder. Design an attractive cover for your file / folder.
- You may use different colour A4 size sheets for different subjects. Have a labelled cover page for each subject. All sheets of a subject should be put together / tied/ stapled together and handed over to the respective subject teachers on the first day of rejoining after summer break.
- Attach all the worksheets along with the homework sheets.
- The written part should be neatly presented in your own handwriting.
- Remember a well presented "Holiday Home Work" fetches you appreciation of the teachers and classmates.
- LAST DATE OF SUBMISSION OF HOLIDAY HOMEWORK : 04 JULY 2025.



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Ch-1-INTRODUCTION TO ACCOUNTING

Q1. Which stakeholder group would be most interested in.

- (a). Tax liabilities of the firm
- (b). The potential for pay awards and bonus deals
- (c). The ethical or environment activities of the firm
- (d). Profitability and share performance.
- (f). The ability of the firm to carry on the providing a service or producing a product.

Q2. Arrange the following steps of accounting process in the correct sequence .

- (a).Recording the financial transactions
- (b). Summarizing the transactions
- (c). Identification of financial transactions and events
- (d).Classifying them through ledger
- (e).Measurement of the transactions in terms of money
- (f).Communicating the financial data to interested parties.
- (g). Analysing and interpreting the financial data.

Q3.Which qualitative feature of accounting is reflected in the following cases.

(a). Unnecessary and irrelevant information is not included in financial Statements.

- (b).Facilitates intra firm and inter firm comparison
- (c).Information is clearly presented
- (d).Free from error and bias.
- Q4. A business firm is planning to diversify its business operations. Will it be recorded in books?
- Q5.'Book keeping has a wider scope as compared to accounting.' Defend or Refute.

Q6. Identify the stakeholder group who would be most interested in the following.

- (a).The ethical or environmental activities of the firm
- (b).Whether a firm has long term future.
- (c).The ability of the firm to carry on providing quality products.

BUSINESS STUDIES (054)

CHAPTER-1 Evolution & Fundamentals of Business

Q1. Differentiate between Business, Profession & Employment in tabular form.

Q2. "Profit plays an important role in the business". Comment.

Q3. What do you mean by 'Economic & Non-Economic Activities'? Explain with examples.

Q4. "Profit Maximization can't be the sole objective of a business". Comment.

Q5. Briefly explain 'Economic Objectives' of Business.

Q6. Please create a chart covering business activities classification, industry types, commerce branches, and trade classification.

Q7. Explain Primary & Secondary Industry with the help of examples.

Q8. "Risk is an inherent element of business". Do you agree? Also discuss nature & cause of Business Risk.

Q9. What do you understand by trade? Discuss the various types of trade.

Q10. With suitable examples briefly explain common 'Auxiliaries of trade'.

Q.11 ABCD Inc. is a company which deals with providing car service at home and on road. There are different departments in this company like Human Resources, Marketing, Finance, Research & Development and Operations. The top management of the company tries its level best to synchronize the activities of different departments in the best possible manner. The result is the increased efficiency and attainment of goals. However with the passing of time the size of the company has grown and now there are many branches of this company. The synchronization has turned more important with the increase in the size of the company and the number of employees. The Departmental Heads of the company are specialists in their respective areas and the top management tries to work with them not with authority but by respecting their views on the subject. Their ego clashes are avoided to ensure smooth functioning of the organisation. Identify the concept of management highlighted above. Write two benefits highlighted in the above paragraph of this concept.

ECONOMICS (030)

Q.1 Explain the concept of Marginal Opportunity cost using a Numerical example.

Q.2 State three Assumption on which a 'production possibilities curve 'is based

Q.3 Draw a production possibility curve and show the following situations:

(1) Fuller utilisation of resources. (2) Economic growth;

- (3) Decrease in resources; (4) Under utilisation of resources.
- Q.4 A consumer consumes only two goods X and Y whose prices are 5 and 6 per unit respectively. If the consumer chooses a combination of the two goods with marginal utility of X equal to 35 and that of Y equal to 30, is the consumer in equilibrium? Give reasons. What will a rational consumer do in this situation? Use utility analysis.
- Q.5 Suppose that the commodity is sold for rupees 8 and MU of one rupee is 10 utils. How many units of the commodity will the person purchase to maximise his satisfaction?

MATHEMATICS (041)

1. Write the following sets in the roster form. (a) $A = \{x : x^2 + x, x \in R\}$ (b) $B = \{x : x^4 - 5^{x^2} + 6 = 0, x \in R\}$

2. If L= $\{1,2,3,4\}$, M= $\{3,,4,5,6\}$ and N = $\{1,3,5\}$ then verify that L -(M U N)=(L-M) \cap (L-N).

3. Using Venn Diagram, for all sets A,B and C .Show that A-(B-C)≠ (A-B)-C.

4. Express each of the following by means of Venn Diagrams (i) (A U B) \cap C (ii) (A \cap B) \cap C (iii) A - B (iv) B - A

5. If A ={x: $x \in W$, X<2}, B ={x: $x \in N$, 1<x<5} and C={ 3,5}, then find :(a) A X(B \cap C) (b) A X (B \cup C)

- 6. Determine the domain and range of the function $f(x) = \{(x, 1/x): 0 < x < 6: x \in N \}$
- 7. What is the total number of proper subsets of a set consisting of 10 elements?

8. Given A={-1,0,2,5,6,11}, B= {-2,-1,0,18,28,108} and $f(x) = x^2$ -x-2. Find f(A). Is f(A)=B?

9 Write the following in set builder form: (i) (-7,0) ii) (2,5] iii) [4,8] iv) [1,6)

10. Let A = {a, b, c, d, e}, B = {b, d, f, h}, C = {d, i, k}. Verify the following identities : (i) A \cup (B \cap C) = (A \cup B) \cap (A \cup C) (ii) A \cap (B \cup C) = (A \cap B) \cup (A \cap C) (iii) A \cap (B - C) = (A \cap B) - (A \cap C)

- 11. Find the domain and range of the function f(x) = (x-2)/(x-1).
- 12. What is the domain of the real valued function f(x) = 1/(x-2)?
- 13. Find the domain and range of the function $f(x) = \sqrt{16 x^2}$

14. Let A= {9, 10, 11, 12, 13} and let $f: A \rightarrow N$ be defined by f(n) =the highest prime factor of n. Find the range of f.

15. Let $f = \{ (-1,-8), (1,-2), (2,1) ,... be a function from Z to Z defined by <math>f(x) = px + q$, for some integers p and q. Determine p and q

PHYSICS (042)

General Instructions:

- 1. A copy of this assignment should be pasted in the class-assignment note book.
- 2. Solve NCERT questions of chapter-1 in separate note book.

3. All the questions should be solved in class assignment note book only.

Q1. Verify the dimensional correctness

of the following relations:

(i) v = u+at [v- final velocity, u- initial velocity, a- acceleration, t- time, s-displacement] (ii) s = ut + $(\frac{1}{2})at^2$

(iii) V = IR + W/Q + P/I [I-current, R- Resistance, W- work, Q- charge, P- power]

(iv)
$$2aS = v^2 + u^2$$

Q2. The frequency of a wave moving on a string is known to depend upon the mass per unit length of the string (m), its length (I) and the tension in the string (t). Use dimensional analysis to obtain a relation for it.

Q3. Find the dimensions of A, B and C if s is distance, g is acceleration due to gravity and t is the time:

$S = A t + B g + Ct^2$

Q4. The magnetic energy (E) stored in an inductor is given by $E = (1/2) L I^2$ where I is the current through it. Find the dimensions of L, the coefficient of self inductance.

Q5. Which of the following have same dimensions:

(i) Force, pressure, stress. (ii) Work, energy, force. (iii) momentum, velocity, impulse

Q6. The force experienced by a moving charge is given by $F = q v B \sin \phi$, where q is charge, v is its velocity and B is the magnetic induction. Find the dimensions of the magnetic induction.

Q7. In a particular system unit of length, mass and time are chosen to be 10cm, 10 g and 0.1second respectively. What will be the unit of force in this system?

Q8. Round off the following numbers as indicated: i) 18.35 up to 3 digits ii) 143.45 up to 4 digits iii) 18967 up to 3 digits iv) 321.135 up to 5 digits.

Q9. Derive the following relationships using dimensions:(a) The velocity 'v' of a wave along a plucked string depends on the tension 'T' in the string, its length 'l' and the mass 'm' of the string.(b) The terminal velocity 'v' of a steel sphere moving under gravity through a viscous liquid depends on the weight of the sphere 'mg', the coefficient of viscosity ' η ' and the radius of the sphere 'r'.

Q10.What will be the measure of the pressure exerted by the earth's atmosphere at the sea level of measured in cgs system of units. [Given 1 atmospheric pressure $=10^5 \text{ N/m}^2$].

Q11. By the use of dimensions, show that energy per unit volume is equal to the pressure.

Q12. Taking velocity, time and force as the fundamental quantities find the dimensions of mass.

Q13. The density of mercury is 13.6 g/cm^3 in CGS system. Find its value in SI units.

Q14. Find the value of 100 J on a system which has 20 cm, 250 g and half minute as fundamental units of length, mass and time.

Q15. Find the dimensions of a / b in the equation: $F=a \times +bt^2$, where F is force, x is distance and t is time.

CHEMISTRY (043)

BASIC CONCEPTS OF CHEMISTRY

(Q1 to Q6.) Given below are four options against each question. Choose the option which you consider the most appropriate as your answer.

Q1 Number of significant figures in the number 2.005 is:

(a) 3 (b) 4 (c) 2 (d) 1

Q2 What will be the molality of the solution containing 18.25 g of HCl gas in 500 g of water?

(a) 0.1 m (b) 1 M (c) 0.5 m (d) 1 m

Q3 A compound was found to contain nitrogen and oxygen in the ratio, nitrogen 28 g and 80gof oxygen. The formula of the compound is:

a) NO b) N₂O₃ c) N₂O₅ d) N₂O₄

Q4 The number of atoms in 4.25 g of NH3 is approximately

a) 6 \times 10 23 b) 2 \times 10 23 c) 1.5 \times 10 23 d) 1 \times 10 23

Q5 One molar solution contains 1 mole of solute in:

(a) 1000 g of the solvent, (b) One litre of the solvent, (c) One litre of the solution, (d) 22.4 litres of the solution.

Q6 The formula which represents the simple ratio of atoms in a compound is called

(a) empirical formula (b) molecular formula (c) structural formula (d) rational formula

Q7 Are 0.5 mole of NaOH and 0.5 M of NaOH solution same? Give reason.

Q8 Calculate the mass percent of different elements present in Sodium Sulphate (Na₂SO₄).

Q9 State and explain the law of multiple proportion.

Q10 Calculate the mass of carbon monoxide having the same number of oxygen atoms as are present in 88 g Carbon dioxide.

Q11 One million silver atoms weigh 1.79 x 10-16 g. Calculate the atomic mass of silver.

Q12 Express the following upto three significant figures: (i) 6.5089 (b) 32.3928 (c) Two thousand

Q13 Aspirin contains 60.0% C, 4.68% H and the rest oxygen. Determine the empirical formula of aspirin.

Q 14 Calculate the amount of carbon dioxide that could be produced when

(i) 1 mole of carbon is burnt in air.

(ii) 1 mole of carbon is burnt in 16 g of dioxygen.

(iii) 2 moles of carbon are burnt in 16 g of dioxygen.

Q 15 Match the following prefixes with their multiples:

	Prefixes	Multiples
(a)	femto	10
(b)	giga	10 ⁻¹⁵
(c)	mega	10 ⁻⁶
(d)	deca	10 ⁹
(e)	micro	10 ⁶

Q 16 In a reaction $A + B_2 \rightarrow AB_2$ Identify the limiting reagent, if any, in the following reaction mixtures. (i) 300 atoms of A + 200 molecules of B (ii) 2 mol A + 3 mol B (iii) 100 atoms of A + 100 molecules of B (iv) 5 mol A + 2.5 mol B (v) 2.5 mol A + 5 mol B

Q 17 Which one of the following will have largest number of atoms?

(i) 1 g Au (s)
(ii) 1 g Na (s)
(iii) 1 g Li (s)
(iv) 1 g of Cl₂ (g)

Q 18 How many significant figures should be present in the answer of the following calculations? (i) 0.02856 × 298.15 × 0.112 /0.5785 (ii) 5 × 5.364 (iii) 0.0125 + 0.7864 + 0.0215

Q 19 Use the data given in the following table to calculate the molar mass of naturally occuring argon isotopes:

Isotope	Isotopic molar mass	Abundance
36Ar	35.96755 g mol ⁻¹	0.337%
38Ar	37.96272 g mol ⁻¹	0.063%
40Ar	39.9624 g mol ⁻¹	99.600%

Q 20 A welding fuel gas contains carbon and hydrogen only. Burning a small sample of it in oxygen gives 3.38 g carbon dioxide, 0.690 g of water and no other products. A volume of 10.0 L (measured at STP) of this welding gas is found to weigh 11.6 g. Calculate (i) empirical formula, (ii) molar mass of the gas, and (iii) molecular formula.

BIOLOGY (044)

1.Who proposed two kingdom classification?

- 2. Name the specialized structure of cyanobacteria helping in fixation of atmospheric nitrogen.
- 3. Identify the organism causing red tides.
- 4. List the characteristics chosen for five kingdom classification.
- 5. Euglena are myxotrophic. Why? Also identify the outer layer of Euglena.
- 6. What is diatomaceous earth. Write its uses.
- 7. Name the 4 major groups of protozoans.
- 8. Describe different types of bacteria.
- 9. What do you mean by
- a) Viroids
- b) Bacteriophages
- 10. Describe the structure of TMV with the help of a diagram.
- 11. Write a note on Deuteromycetes.

12. What are lichens? Name their components. How are they significant in environmental studies.

13 .Draw a labelled colourful diagram on a chart from any related topic.

14. Prepare a project on any related topic from your subject.

COMPUTER SCIENCE (083)

Q1. Verify the following using truth table. X+Y.Z = (X+Y). (X+Z)

Q2. Write a python program to add two Numbers.

Q3. What is the function of CPU in a computer system? What are its subunits?

Q4. What functions are performed by the control unit? Can we call it the control centre of computer system? Why?

Q5. What functions are performed by the ALU? Is it an independent unit? If not, which unit does ALU work in coordination with?

Q6. Distinguish between CPU and ALU.

Q7. What is the function of output unit in a computer system? Give examples of some output devices.

Q8. What is the meaning of the term volatile primary memory?

Q9. Distinguish between internal and external memory.

Q10. What is the role of memory in a computer functioning? What types of memory does the computer work with?



SECTION A: Reading and Understanding

1. The Portrait of a Lady

Write a summary of the story in 150–200 words.

Answer the following questions in your notebook:

- a) Describe the relationship between the author and his grandmother.
- b) How does the author portray the image of his grandmother?
- c) What changes occurred in their relationship over the years?

2. A Photograph

Write a summary of the poem in your own words.

Answer the following questions:

- a) What does the photograph depict?
- b) How does the poet express grief and nostalgia?
- c) Identify and explain two poetic devices used in the poem.

SECTION B: Creative Writing

3. Diary Entry

Imagine you are the author (Khushwant Singh) reminiscing about your grandmother. Write a diary entry expressing your thoughts and emotions.

4. Personal Reflection Paragraph

Write about a photograph of your own that holds a special memory. (100-120 words)

SECTION C: Vocabulary & Enrichment

5. Word Bank

From both chapters, pick 10 new/difficult words. Write their meanings, and use each in a sentence of your own.

POLITICAL SCIENCE (027)

(I) WRITTEN ASSIGNMENT

- 1. Why is Indian constitution bulky?
- 2. Why we need a constitution
- 3. Discuss the main sources of the Indian constitution
- 4. Describe in brief and silent features of Indian constitution
- 5. Distinguish between direct and indirect democracy

(II) ACTIVITY

Find out about the articles, parts and schedules of Indian constitution

- 1. At the time of independence
- 2. In today's scenario.

(III) READING TASK

1.Read newspapers especially the Editorial page everyday.

2.Read more about Indian constitution.



1. Construct your own source of history.

2. Prepare a clay tablet using POP and insulated some messages of past and present. Message should be in form of an order of a ruler or government. Guidelines:-

- 1. Make an A4 size tablet using POP.
- 2. Inscribe one message while it remain wet.
- 3. Dry it in sun.
- 4. Keep filling the cracks.
- 5. Give it a brown colour.

