Ambika Prasad Memorial Public School

(Winter Holiday Homework 2025-26) Class - 11 A/C/H

SUBJECTS	HOLIDAY HOMEWORK
English	Hornbill- Complete chapter Silk Road and Father to Son in your notebook Snapshots- Complete chapter The Tale of Melon City in your notebook.
Hindi	Hindi literature(Kritika): Read the lesson "Aalu Andhari" carefully from your NCERT Hindi textbook. Write all the NCERT questions and their answers related to the lesson "Aalu Andhari" neatly in your Hindi notebook.. Hindi language: Prepare notes on Shabdkosh (Dictionary Work) in your Hindi notebook. Note :- Bring your completed notebook on the first day after holidays.
Accountancy	1)Draw format of Financial Statements with 10 entries :-- (a) Trading A/c. (b) Ptofit & Loss A/c (c) Balance Sheet. (2) Solve 5 numericals from each chapters :--(a) Bank Reconciliation Statement(b) Depreciation (c) Rectification of Errors.
Economics	(1) Do worksheet (Chapter- Theory of Sopply- Numerical based Questions) (2) Explain with Table and diagram :-- (a) Elasticity of Demand (b) Consumers' Equilibrium (c) Producers' Equilibrium
Business study	1)Draw Mind - Map of chapters :-- (a) Sources of Business Finance (b)Small Business and Enterprises (c)Internal Trade. (2) Prepare notes of chapter -- International Business.
Legal study	Prepare notes of chapter 1.Property, succession and Inheritance 2.Prevention of violence against women complete given worksheet in Notebook
Computer Science	1. Write a program to reverse a string. 2. Write a Python program to check whether a given string is a palindrome or not. 3. Create a list of 10 numbers and find their sum. 4. Create a tuple of subjects and display each subject. 5. Create a dictionary of 5 students with marks. 6. Difference between List and Tuple. 7. Difference between List and Dictionary.
Psychology	Complete notes of Ch- 7 Thinking and Ch- 8 Motivation and Emotion Complete exercise of chapter 7 Do given worksheets in notebook.
Physical Education	Prepare the structure and function of Respiratory System Prepare the 12, 13, 17 & 21 teams fixture Write and learn the importance and principles of biomechanics.
Physics	1Assertions: Density of water decreases when cooled from 4°C to 0° C.

Reason: Water has negative co efficient of thermal expansion at low temperatures (i.e. below 4°C)

2. Assertion: A rubber balloon partially inflated in a cool room may expand to full size when placed in warm water.

Reason: Material of the balloon exhibits positive thermal expansion with rise in temperature.

3. Assertion: In desert areas, the earth surface warms up quickly during the day and cools slowly during night.
Reason: Water has lowest Specific heat capacity.

4. Assertion: Even after supplying heat energy to ethanol at 78°C the temperature of ethanol do not rise
Reason: At 78°C for ethanol, vapour and liquid state of the substance exist in equilibrium.

5. Assertion: Burns from Boiling water is more serious than steam at same temperature.
Reason: Water has higher Latent heat of fusion as compared to latent heat of vaporisation.

6. Assertion: A bimetallic strip when fixed at both ends and supplied with heat energy, becomes curved.
Reason: Specific heat capacity is the characteristic property of a material.

7. Assertion: Air close to the equator has an eastward speed of 1600 km/hr, while it is zero close to the poles.
Reason: Earth rotates in east west direction
.
8. Assertion: We should wear light coloured clothes in summer.
Reason: Amount of heat that a body can absorb depends only on temperature and independent of color, shape and size.

9. Assertion: Time period of a simple pendulum having copper bob is more as compared to iron bob, if both are maintained at same temperature.

Reason: Co efficient of linear expansion for copper is more than that of iron.

10. Assertion: Apparent weight of an object immersed in fluid increases with increase in temperature.

	Reason: Density of any solid object increases with decrease in temperature. Question11. State first law of thermodynamics and apply it to the boiling process of liquid. Question 12.A system is given 200 calories of heat and it does 600 joules of work. How much does the internal energy of the system change in this process. (J = 4.18 joule/cal)? Question 13. Which is greater CP or CV and why? Question 14. If at 50°C and 75cm of mercury pressure, a definite mass of gas is compressed (i) slowly (ii) suddenly, then what will be the final pressure and temperature of the gas in each case if the final volume is one-fourth of the initial volume (gamma = 1.5). Question15.Show that the slope of an adiabatic curve at any point is gamma times the slope of an isothermal curve at the corresponding point. Question 16. Ten moles of hydrogen at NTP is compressed adiabatically so that its temperature become 400°C. How much work is done on the gas? What is the increase in the internal energy of the gas (R = 8.4 J mol^{-1} K^{-1}, gamma = 1.4) Question 17. Determine the PV relation for a monatomic gas undergoing an adiabatic process. Question 18. Derive an expression for work done during isothermal process. Question 19. A Carnot engine has efficiency 25%. It operates between reservoirs of constant temperatures with temperature difference of 80°C. What is the temperature of the low temperature reservoir Question 20. An insulated container containing monatomic gas of molar mass m is moving with a velocity v^0. If the container is suddenly stopped, find the change in temperature. Question 21. Show that the average kinetic energy of a gas molecule is directly proportional to the temperature of the gas. Hence give the kinetic interpretation of temperature. Question 22. Show that the average kinetic energy of a gas molecule is directly proportional to absolute temperature of the gas. Question 23.Derive an expression for pressure of a gas in a container. Using it, relate KE with pressure. Question 24. State Newton's law of cooling. Derive mathematical expression for it. Question 25. Two rods A and B of different materials are welded together. Their thermal conductivities are K1 and K2. Find the thermal conductivity of the composite rod.
Chemistry	Do worksheet given in a group.

Mathematics	Topic - sequence and series (ARITHMETIC PROGRESSION, GEOMETRIC PROGRESSION) ncert exercise 1,2 Conic section (Circle (ex1),parabola(ex1), ellipse and hyperbola (ex1)) Make all formula sheet of limits
Biology	Do worksheet given in a group.
History	Do complete given work sheets in your note books. Political science -Do complete given work sheets in your note books. Complete Art integrated projects given .
Political science	Do complete given work sheets in your note books. Complete Art integrated projects given .