

Winter Vacation Home Work- 2023-24

Class- XI

COMMERCE

ENGLISH

1. Write reasons for the critical condition of Town Hor near Mount Kailash. Also, suggest some ways to make it pollution-free as this area is near Man Sarovar. Do this in your project file.
2. Write a Biography of Vikram Seth and also mention his types of literary works with his pic in your project file.

ACCOUNTANCY

- 1) Complete notes & prepare project file.
- 2) Give a paper presentation on accounting by technology.

BUSINESS STUDIES

- A. Complete notes & prepare project file.

Prepare a chart on

- 1- Export procedure or
- 2- Import procedure or
- 3- Forms of organization.

ECONOMICS

Topic- Working of Commercial banks

Prepare a project file on the sub topics mentioned below:

- 1- Structure of banking system in India (Preparation of flowchart depicting the Indian Banking structure)
- 2- Role of Commercial banks in India (Primary and secondary functions of commercial banks)
- 3- Pasting and specifying

हिंदी

1. जनसंचार और पत्रकारिता के अंतर्गत (किन्हीं पांच दिनों का) राजनीति और संपादकीय लेखों का संकलन कीजिए।
2. अपना एक स्ववृत्त तैयार कीजिए।

PHYSICAL EDUCATION

1. BMI, Waist - Hip Ratio, Push Ups/Modified Push Ups, Partial Curl up, Sit and Reach all Practical write on Practical file

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HUMANITIES

ENGLISH

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HISTORY

- 1- Read Novels on Contemporary Iraq –“post 1980” Write a summary of political changes and their impact on the people of Iraq during the civil war and attack on Saddam Hussain’s regime.

GEOGRAPHY

(Project work) prepare a rough draft on any one of the following topics, the rough draft should have complete and detailed information along with a critical analysis of the topics:

- 1- Making and unmaking of Mesopotamia
- 2- Aspiration of women in the Renaissance
- 3- Path to modernization of Japan/China

POLITICAL SCIENCE

Make a project file on a given topic.

1. Election system in India.
2. Social justice
3. India’s secular model
4. Electoral reforms in India

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SCIENCE

ENGLISH

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PHYSICS

Solve all numerical with their explanation (Answers are provided for your convenience)

1- A cup of coffee cools from 90°C to 80°C in minutes, when the room temperature is 20°C . The time taken by a similar cup of coffee to cool from 80°C to 60°C at room temperature same at 20°C , is Ans- $13/5$ t

2- A black body at 1227°C emits radiations with maximum intensity at a wavelength of 5000 \AA . If the temperature of the body is increased by 1000°C , the maximum intensity will be observed. Ans- 3000 \AA

3- If 1 g of steam is mixed with 1 g of ice, then the resultant temperature of the mixture is. Ans- 100°C

4- 10 g of ice cubes at 0°C are released in a tumbler (water equivalent 55 g) at 40°C . Assuming that negligible heat is taken from the surroundings, the temperature of water in the tumbler becomes nearly (L = 80 cal/g) Ans- 22°C

5- A soap bubble, having a radius of 1 mm, is blown from a detergent solution having a surface tension of $2.5 \times 10^{-2} \text{ N/m}$. The pressure inside the bubble equals at a point Z 0 below the free surface of water in a container. Taking $g = 10 \text{ m/s}^2$, the density of water = 10^3 kg/m^3 , the value of Z 0 is. Ans- 1 cm

CHEMISTRY

1) In a process, 701 J of heat is absorbed by a system and 394 J of work is done by the system. What is the change in internal energy for the process?

2) Calculate the number of kJ of heat necessary to raise the temperature of 60.0 g of aluminium from 35°C to 55°C . (Molar heat capacity of Al is $24 \text{ Jmol}^{-1}\text{K}^{-1}$.)

3) $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightarrow 2\text{NH}_3(\text{g})$; $\Delta_r H^{\ominus} = -92.4 \text{ kJmol}^{-1}$ What is the standard enthalpy of formation of NH_3 gas?

4) Enthalpy of combustion of carbon to CO_2 is $-393.5 - 7.151 \text{ kJmol}^{-1}$. Calculate the heat released upon formation of 35.2 g of CO_2 from carbon and dioxygen gas.

5) Enthalpies of formation of $\text{CO}(\text{g})$, $\text{CO}_2(\text{g})$, $\text{N}_2\text{O}(\text{g})$ and $\text{N}_2\text{O}_4(\text{g})$ are -110 , -393.81 and 9.7 kJmol^{-1} respectively. Find the value of ΔH for the reaction: $\text{N}_2\text{O}_4(\text{g}) + 3\text{CO}(\text{g}) \rightarrow \text{N}_2\text{O}(\text{g}) + 3\text{CO}_2(\text{g})$

BIOLOGY (FOR BIOLOGY GROUP)

1. Draw the structure of the human Heart, kidney, and lungs and label it.
2. Describe cell division and draw the structure of each event on chart paper.
3. Draw the structure of the fluid mosaic model of the plasma membrane.

MATHS (FOR MATHS GROUP)

1. Prepare 3-D models on conic sections (by using papers or clay) formed by the cross sections of cones.
 - i) Circle
 - ii) Parabola
 - iii) Hyperbola
 - iv) Ellipse
2. Prepare a Chart paper on the standard form of conics (one of the following):
 - i) Four standard forms of Parabola.
 - ii) Both standard forms of Ellipse.
 - iii) Both standard forms of Hyperbole.

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