



DAV PUBLIC SCHOOL GANDHI NAGAR, CCL, RANCHI
HOLIDAY HOME WORK (2026-27)
CLASS -X

ENGLISH

1. Make a portfolio : Comparative study between Telangana and Jharkhand
2. Make mind map of the chapters: A Letter to God and A Triumph of Surgery (on A4 size paper)

हिन्दी

1.) पद-परिचय हेतु संज्ञा, सर्वनाम, विशेषण, क्रिया, क्रिया विशेषण, लिंग, वचन, कारक, भेद, भेदों का 10-10 और काल की परिभाषा, भेद, 2 की परिभाषा तथा प्रत्येक उदाहरण दिल अपनी हिन्दी उत्तरपुस्तिका में लिखें।
- 2.) अलंकार (उपमा, उत्प्रेक्षा, रूपक, मानवीकरण तथा अतिशयोक्ति अलंकार) की परिभाषा एवं प्रत्येक का 10-10 उदाहरण उत्तरपुस्तिका में लिखें।
- 3.) वाक्य (रचना के आधार पर) की परिभाषा भेद, भेदों की परिभाषा एवं प्रत्येक का 10-10 उदाहरण लिखें।

SANSKRIT

ग्रीष्मावकाशगृहकार्यम्

कक्षा दशमी

विषय संस्कृत

पंचश्लोकाः लिखन्तु यस्मिन् दानस्य महत्त्वं प्रतिपादितम् अस्ति ।

तिस्रः प्रहेलिकाः लिखन्तु अर्थम् च लिखन्तु ।

क्त्वा, ल्यप् प्रत्यय 15 पंचदश उदाहरणानि लिखत

मम विद्यालयः चित्रं निर्माय पंच वाक्यानि लिखत

इन सभी को ग्रीष्मावकाश गृहकार्य की कापी में लिखना है एवं याद करना है । ग्रीष्मावकाश गृहकार्य के लिए अलग से कापी बनानी है ।

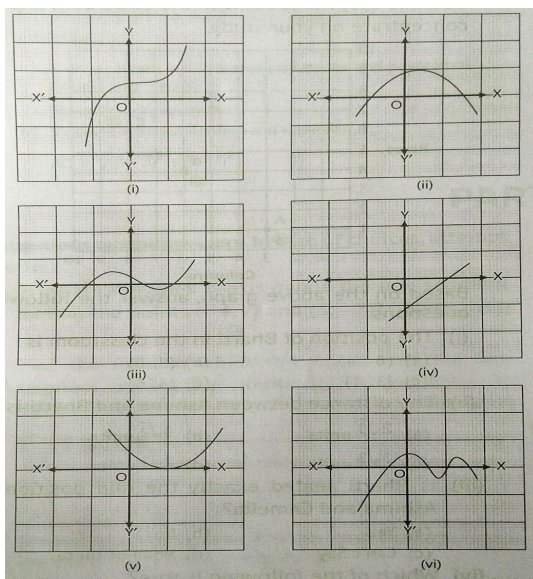
MATHEMATICS

A. Construct a colourful mind map (on a coloured A4 sheet) of the following chapter which includes all the related important concept of

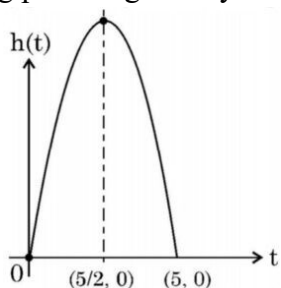
- 1) Real number
- 2) Polynomial
- 3) linear equations in two variables
- 4) Quadratic equation

B. Case Study:

- 1) In an examination hall, there are six students. All six students attempted a question that draw a graph of quadratic polynomial $p(x)$. The graph drawn by them is given below:



- a) How many students have drawn the graph wrongly?
 - b) Find the number of zeroes of the graph of the polynomial, drawing by sixth student.
 - c) How many students drawing the graph, which has only one zero?
- 2) A ball is thrown in the air so that t seconds after it is thrown, its height h metre above its starting point is given by the polynomial $h=25t-5t^2$.



- a) Write the zeros of the given polynomial.
 - b) Find a maximum height achieved by the ball.
 - c) After throwing upward, how much time did the ball take to reach the height of 30 m?
 - d) Find the two different values of t when the height of the ball was 20m.
- 3) To enhance the reading skill of class X students, the school nominates you and two of your friends to set up a class library. There are two sections, Section A and Section B of Class X. There are 32 students in section A and 36 students in section B.
 - a) What is the minimum number of books you will acquire for the class library so that they can be

- distributed among students of Section A or Section B?
- Express 36 as a product of its primes.
 - $7 \times 11 \times 13 \times 15 + 15$ is a composite number? Justify.
 - If p and q are positive integers such that $p = ab^2$ and $q = a^2b$, where a, b are prime numbers, then find the LCM (p, q).
- 4) A coaching institute of mathematics conducts classes in two batches I and II and fees for rich and poor children are different. In batch I, there are 20 poor and 5 rich children, whereas in batch II there are five poor and 25 rich children. The total monthly collection of the fee from batch I is Rs 9000 and from batch II is Rs 26,000. Assume that each poor child pays Rs x per month and each rich child pays Rs y per month.
- Represent the information given below in terms of x and y .
 - Find the monthly fee paid by a poor child.
 - Find the difference in the monthly fee paid by poor child and a rich child.
 - If there are ten poor and 20 rich children in batch II. What is the total monthly collection of fees from batch 2?
- 5) A rectangular floor area can be completely tiled with 200 square tiles. If the side length of each tile is increased by one unit, it would take only 128 times to cover the floor.
- Assuming the original length of each side of a tile be x units, make a Quadratic Equation from the above information.
 - Write the corresponding quadratic equation in standard form.
 - Find the value of x , the length of side of tiles by factorization.
 - Solve the quadratic equation for x using quadratic formula.

SCIENCE BIOLOGY

To be done in Biology C.W copy.

Q1. Assertion Reason type Questions

A.Assertion-All proteins in our food are digested in small intestine only.

Reason- The protein digesting enzymes are released into small intestine and stomach.

B.Assertion-In larger animals, oxygen can easily reach each cells of the body.

Reason- Respiratory pigment carry oxygen and take it to the tissues.

C.Assertion-The act of expelling the undigested food from the large intestine is called excretion.

Reason- The exit of undigested food is controlled by anal sphincter.

D.Assertion- In humans, there is a complex respiratory system.

Reason- Human skin is impermeable to gases.

E.Assertion- The process of obtaining food by Amoeba is phagocytosis.

Reason- Amoeba ingests the food particles by forming finger-like projections called pseudopodia around it.

Q2- Answer the following in brief:

F. Sometimes while running, the athletes suffer from muscle cramps. Why, How the respiration in this case different from aerobic respiration?

G. Neha consumed boiled sweet potatoes and boiled eggs for breakfast.

Which of these food items is rich in proteins? In which part of the alimentary canal is the digestion of this component initiated? Name the enzymes, conditions required and the glands associated with the digestion here.

H. State the enzyme /salt present in the following and mention their function in the process of digestion.

(i) Saliva. (ii) Bile juice (iii) Pancreatic juice.

I. With the help of of a flow chart show the pathway of breakdown of glucose in a cell to provide energy

a) In the presence of oxygen

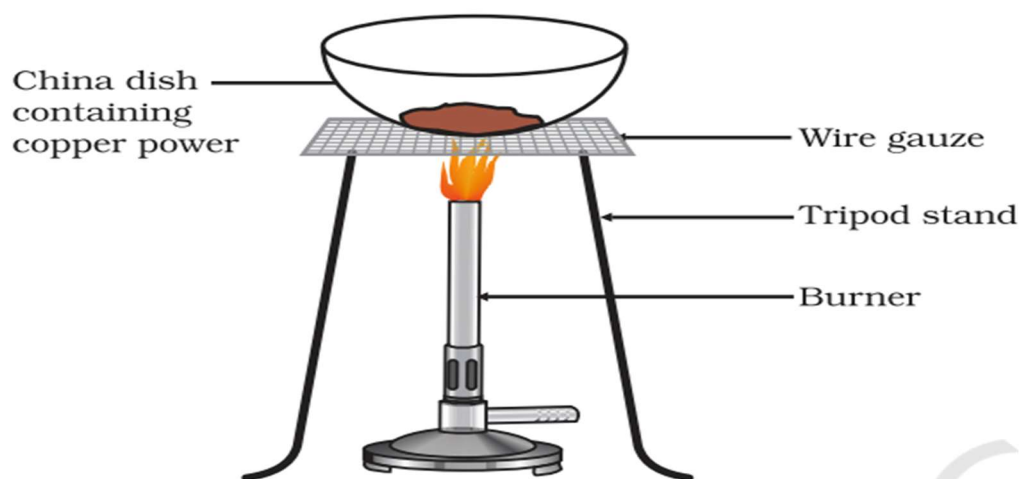
b) In the absence of oxygen

c) Lack of oxygen.

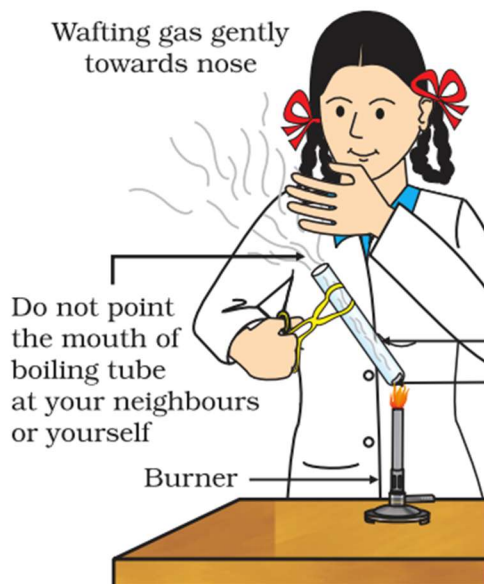
J. Name the process and explain the type of nutrition found in green plants. List the raw materials required for this process, Give chemical equation for the mentioned process.

CHEMISTRY

1. A reddish-brown metal (X) is heated in air to form a black compound (Y). When hydrogen gas is passed over heated (Y), it turns back into (X). Identify X and Y. Write the chemical reaction involved. What type of chemical reaction is taking place.



2. A pale green substance (A) is heated, forming a brown residue (B) and two gases with the smell of burning sulphur are produced. Identify A and B Write the chemical reaction involved. What type of chemical reaction is taking place.



3. Give reason why?
 - [a] During electrolysis of water the volume of gas collected at one electrode is double that at the other.
 - [b] Respiration considered an exothermic reaction.
 - [c] Silver articles turn black when kept in the open for a few days.
 - [d] Hydrogen peroxide is stored in colored bottles.
 - [e] Magnesium ribbon is cleaned with sandpaper before burning
4. Balance the chemical equation:
 - [a] $\text{FeCl}_3 + \text{MgO} \rightarrow \text{Fe}_2\text{O}_3 + \text{MgCl}_2$
 - [b] $\text{Li} + \text{H}_3\text{PO}_4 \rightarrow \text{H}_2 + \text{Li}_3\text{PO}_4$
 - [c] $\text{FeS}_2 + \text{Cl}_2 \rightarrow \text{FeCl}_3 + \text{S}_2\text{Cl}_2$
 - [d] $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2 + \text{H}_2\text{O}$
 - [e] $\text{Zn} + \text{HNO}_3 \rightarrow \text{Zn}(\text{NO}_3)_2 + \text{H}_2\text{O} + \text{NO}$
5. Translate the following statements into chemical equations and then balance them.
 - (a) Hydrogen gas combines with nitrogen to form ammonia
 - (b) Hydrogen sulfide gas burns in air to give water and sulfur dioxide.
 - (c) Barium chloride reacts with aluminum sulfate to give aluminum chloride and a precipitate of barium sulfate
 - (d) Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.

PHYSICS

1. Look around you and state five instances where reflection of light takes place from different kind of mirrors and image is formed. Draw suitable ray diagrams to show the image formation by them. Also mention the details of the image formed.
2. Quote some instances where multiple images of an object are formed. Write the formula if there's any to state the number of images in such case.

SOCIAL SCIENCE

HISTORY

Chapter 1: The Rise of Nationalism in Europe

Project: Newspaper Making

Prepare a newspaper page on chart paper titled “**The National Times – Europe Edition**”

❖ Include the following **News articles** on these topics: -

- A. Painting and vision of **Frederic Sorrieu**
- B. Situation of France
- C. Unification of Germany
- D. Unification of Italy
- E. Greek War of Independence
- F. Other relevant incidents

- Draw or paste 1–2 pictures
- Draw one political cartoon
- Write 4–5 facts about nationalism in Europe

GEOGRAPHY

1. Prepare a Project Report on International Earth Summit 1992 and the concept of Sustainable Development.
2. In A4 Size paper, Minimum 12 pages, mention the report published by United Nations, use figure, data and Statistical diagrams wherever needed.

Write in your own handwriting

ECOMONICS

A Concept Based Questions

1. Define Growth.
2. Define Development.
3. Difference between Development & Growth: Describe.
4. Describe Sustainable Development Goals.
5. Define HDI.
6. How to Calculate HDI. Describe.
7. Describe Income & Other Goals of Development

B. HOTS & Applications -

1. Why do different persons have different notions of development. explain.
2. "Conflicting goals can be developmental goals." elaborate with Examples.
3. "The Earth has Enough resources to meet the needs of all but not enough to satisfy the greed of even one person." How is this statement relevant to the discussion of development? Discuss.

C. Long Answer type questions-

1. What is the criterion used by the UNDP for classifying Countries?
2. Explain the meaning of HDI. Mention three Components of measuring HDI.
3. Compare the Aspirational Goals of a boy from a rich urban family and a girl from a rich urban family.

D. Competency Based Question-

1. Mention the differences between developed countries and developing countries.

COMPUTER SCIENCE

1. Outline the six stages of the AI Project Cycle.
2. Elucidate the AI domains and their applications.
3. Describe what are frameworks and ethical frameworks.
4. Classify ethical frameworks based on sectors and value addition.
5. Explore the bioethical framework and its principles in detail.
6. Draw the communication process and its element.
7. Write the importance of verbal and non-verbal communication.
8. What is visual communication? Give five examples of visual communication.
9. What is feedback? Write the importance of feedback.
10. Write any five barriers to effective communication in details.
