



## **HOLIDAY HOMEWORK**

### **Class -10**

### **SESSION (2025-2026)**

#### **ENGLISH**

1 Write one paragraph on daily news and also write a paragraph reviewing the Editorial Page (From June 1 to June 30)

Newspaper - The Tribune

2 Read and revise the work done in the class.

3 Prepare the following topics for speaking skills assessment

a) Is media truly independent in our country

b) Does censorship in movie industry protect culture or limit artistic freedom

c) Should powerful nations intervene in in global conflicts

d) Should countries be obliged to accept refugees from war zones

note all to be prepared either for or against

4 Solve bbc practice questions of the chapters done in class (from each module write 5 questions)

#### **HINDI**

Learn the work done in class

Complete the assignment in notebook as discussed in the class

#### **Social Science**

Complete the notebooks

Prepare a project work on the given topics:

Sustainable development or social issues or consumer awareness

Do art integrated activities as discussed in the class.



## **MATHS**

\* Do the activities in lab manual:

Activity 1(Pg 9), 2(Pg 13), 3(Pg 17), 5(Pg 17), and Do activity 6(Pg 27) as project on card board.

\* Write and learn tables from 11 to 30 on assignment sheets.

\* Do the assignment uploaded on E care on assignments sheets.

## **ARTIFICIAL INTELLIGENCE**

Revise the topics done in the class.

Activity 1: Create a Power Point Presentation for Stress Management Techniques.

[Maximum 10-15 Slides]

Activity 2: Do the following activities in practical file from Unit-3 ICT SKILLS (Employability Skills Book).

- Creating a New File/ Folder (Pg: 73)
- Renaming a File/ Folder (Pg: 74)
- Copying or Moving a File/ Folder (Pg: 74)
- Deleting a File/ Folder (Pg: 75)
- Restoring a Deleted File/ Folder (Pg: 75)
- Emptying the Recycle Bin & Searching for a File/ Folder (Pg: 76)

Note: Write steps for each command along with outputs in practical file.

## **PHYSICS**

Revise syllabus

Draw the ray diagrams of spherical mirrors and lenses on A4 sheet

Solve the worksheet which will be uploaded by

Activity- Draw a mirrored landscape as explained in class

Complete the Physics practical file for the two lab activities done



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## CHEMISTRY

“CREATIVITY IS NOT FINDING OF THINGS, BUT MAKING SOMETHING OUT OF IT AFTER IT IS FOUND” -  
JAMES RUSSELL LOWELL

1. Explain and Make a video of any topic of chemistry.
2. Peer activity: Prepare a topic from chapter 2 according to assigned roll numbers and give a demonstration using chalk and board and even lab reagents can be asked for a demonstrating activity.
3. Draw all the diagram of the activities of chapter 1 and write a relevant well-balanced chemical equation for each.
4. Do the assignment of chapter 1 in your chemistry notebook given below.

## ASSIGNMENT:

Chemical Reactions and Equations

Very Short Answer Type Questions

1. Complete the reaction:  $\text{Fe}_2\text{O}_3 + \text{Al} \rightarrow$
2. What happens chemically when quicklime is added to water?
3. Name the products formed when zinc granules are treated with dilute sulphuric acid.
4. Which one is a chemical change—fermentation of fruit juice or diluting fruit juice?
5. What change in colour is observed when white silver chloride is left exposed to sunlight? What type of chemical reaction is this?
6. Balance the given chemical equation:  $\text{Al(s)} + \text{CuCl}_2\text{(aq)} \rightarrow \text{AlCl}_3\text{(aq)} + \text{Cu(s)}$
7. Balance the following chemical equation:  $\text{NaOH(aq)} + \text{H}_2\text{SO}_4\text{(aq)} \rightarrow \text{Na}_2\text{SO}_4\text{(aq)} + \text{H}_2\text{O(l)}$
8. Balance the chemical equation:  
 $\text{MnO}_2\text{(s)} + \text{HCl(aq)} \rightarrow \text{MnCl}_2\text{(aq)} + 2\text{H}_2\text{O(l)} + \text{Cl}_2\text{(g)}$
9. What do you observe when a matchstick flame is brought near a tube containing hydrogen gas?

Short Answer Type Questions—I

1. Distinguish between an exothermic and an endothermic reaction. Amongst the following reactions, identify the exothermic reaction and the endothermic reaction.  
(i) Heating coal in air to form carbon dioxide. (ii) Heating limestone in a limekiln to form quicklime.

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2. When the powder of a common metal is heated in an open china dish, its colour turns black. However, when hydrogen is passed over the hot black substance so formed, it regains its original colour. Based on the above information answer the following questions:

(i) What type of chemical reaction takes place in each of the two given steps? (ii) Name the metal initially taken in the powder form. Write balanced chemical equations for both reactions.

3. Write balanced equations for the reaction of:

(i) Iron with steam (ii) Calcium with water

4. Crystals of copper sulphate are heated in a test tube for some time. What is the colour of copper sulphate crystals (i) before heating, and (ii) after heating?

5. State any two observations in an activity from biology which may suggest that a chemical reaction has taken place. Give examples to support your answer.

6. Write fully balanced chemical equation and state the physical condition and physical state of the reactants in the following reaction: Aluminium metal dissolves in aqueous copper sulphate solution with the formation of aluminium sulphate and copper.

7. (i) What do you understand by the following terms used in a chemical equation:

(a) reactants (b) products? (ii) What does symbol ( ) represent in a chemical equation?

8. Grapes hanging on the plant do not ferment but after being plucked from the plant can be fermented. Under what conditions do these grapes ferment? Is it a chemical change?

9. Balance the following chemical equations

(a)  $\text{Mg} + \text{N}_2 \rightarrow \text{Mg}_3\text{N}_2$  (b)  $\text{Al} + \text{Cl}_2 \rightarrow \text{AlCl}_3$

Short Answer Type Questions–II

1. Name the products formed in each case when:

(a) Hydrochloric acid reacts with caustic soda.

(b) Granulated zinc reacts with caustic soda.

(c) Carbon dioxide is passed into lime water.





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2. Write chemical equations for the reactions taking place when.

- (a) Sodium reacts with water
- (b) Zinc reacts with dilute hydrochloric acid
- (c) Magnesium metal reacts with  $\text{HNO}_3$

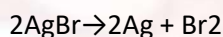
3. Complete the following chemical equations:

- (i)  $\text{C}_2\text{H}_5\text{OH} + \text{O}_2$
- (ii)  $\text{CH}_3\text{COOH} + \text{NaHCO}_3$

4. Complete the following chemical equations:

- (i)  $\text{CH}_3\text{COOH} + \text{Na}_2\text{CO}_3$
- (ii)  $\text{CH}_4 + \text{O}_2$
- (iii)  $\text{C}_2\text{H}_5\text{OH} + \text{Na}$

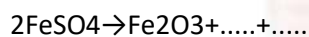
5. (a) Write the essential condition for the following reaction to take place.



Write application of this reaction.

- (b) Complete the following chemical equation of a chemical reaction:

Heat



- (c) What happens when water is added to quick lime? Write chemical equations.
- (d) On adding a drop of barium chloride solution to an aqueous solution of sodium sulphite, a white precipitate is obtained.

6.

- (a) Write a balanced chemical equation of the reaction involved.
- (b) What other name can be given to this precipitation reaction?
- (c) On adding dilute hydrochloric acid to the reaction mixture the white precipitate disappears. Why?

Long Answer Type Question

1. Observe the given figure and answer the following questions.

- (i) Write the complete balanced reaction for the above.
- (ii) Type of reaction involved.
- (iii) Is there any precipitate formed?
- (iv) If any precipitate formed, write the colour of the precipitate.

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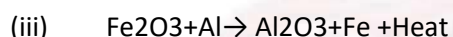
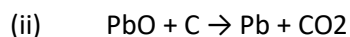
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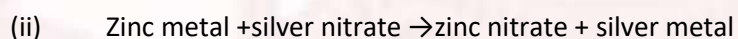
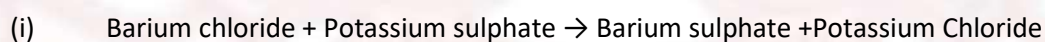
2. (a) Can we stir silver nitrate solution with a copper spoon? Why or why not? Support your answer with reason.

(b) Why a brown coating is formed on the iron rod when iron rod is kept dipped in copper sulphate solution for some time? What change will be observed in the colour of the solution?

3. (a) Balance the following chemical equations:



(b) Write the balanced chemical equations for the following reactions.



4. (a) Define a balanced chemical equation. Why should an equation be balanced?

(b) Write the balanced chemical equation for the following reason:

(i) Phosphorus burns in presence of chlorine to form phosphorus pentachloride.

(ii) Burning of natural gas

(iii) The process of respiration.



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## **BIOLOGY**

1. Draw and label diagrams of the

Structure of leaf

Structure of stomata

Human digestive system

Respiratory system

Human heart and

Excretory system on A4 sheets. (Art Integrated)

2. Conduct research and prepare a presentation on any one of the following topics:

Topic- The role of vitamins and minerals in the body.

OR

Topic- The impact of pollution on plant life.

OR

Topic- The relationship between nutrition and human health.

Presentation should be on colourful sheets and not in a notebook. Support your Presentation with colourful pictures/ illustrations.

OR

Design a poster on healthy eating habits and their impact on life processes.

OR

Poster on Healthy Heart

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