

**DCEB - KRISHNA**  
**REVISION TEST - 1**  
**PHYSICAL SCIENCE**  
 (Syllabus: 1.Heat and 2. Acids, Bases & Salts)  
 (English Medium)  
 Max.Marks: 25

Class: 10

Time: 1 Hr

Instructions:

1. There are four sections and 17 questions in the paper.
2. Answer should be written in a given answer sheets.
3. There is internal choice in section-IV.
4. Write all the questions visible & legibly.
5. 5 minutes are given for reading the question paper and 55 minutes given for answering questions

**Section-I**

**Note: 1. Answer all the questions**

**2. Each question carries ½ mark**

1. 1 cal = \_\_\_\_\_ Joules 6 x ½ = 3
2. Which of the following is true?
  - A) While condensation, the temperature of substance is increases
  - B) While freezing, the temperature of substance is increases
  - C) At boiling, the temperature of substance remains constant
  - D) All the above statements are true
3. What is the value of latent heat of vaporization of water?
4. Match the following
 

i) Plaster of Paris	(     )	a) CaSO <sub>4</sub> 2H <sub>2</sub> O
ii) Gypsum	(     )	b) NaHCO <sub>3</sub>
iii) Baking Soda	(     )	c) CaSO <sub>4</sub> ½ H <sub>2</sub> O
5. Which gas evolves, when metal carbonate or metal hydrogen carbonate react with acids
 

A) Hydrogen	B) Oxygen	C) Nitrogen	D) Carbon dioxide
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6. **Ahalya** : All metal oxides are acidic in nature  
**Akshitha** : Metal oxides are basic in nature  
 Which statement is correct?

**Section-II**

**Note: 1. Answer all the questions**

**2. Each question carries 1 mark**

7. State the principle of method of mixtures.
8. Convert 300K into Celsius scale
9. What is fog?
10. What is the chemical name and formula of table salt?

4 x 1 = 4

**Section-III**

**Note: 1. Answer all the questions**

**2. Each question carries 2 marks**

11. Frame any two questions to understand the differences between evaporation and boiling
12. Write any two differences between heat and temperature?
13. How does the flow of acid rain into a river make the survival of aquatic life in a river difficult?
14. Write any two uses of bleaching powder.
15. Complete the following table

5 x 2 = 10

Solution	Blue litmus paper	Red litmus paper	Phenolphthalein	Methyl orange
Acid	Red			Red
Base		Blue	Pink	

**Section-IV**

**Note: 1. Answer all the questions**

**2. Each question carries 4 marks**

16. Suggest an experiment to prove that the rate of evaporation of a liquid depends on its surface area and vapour already present in surrounding air.

2 x 4 = 8

(OR)

Specific heat values of different substances are given below. Answer the following questions

Substance	Ice	Water	Lead	Copper	Sea water	Aluminium	Brass
Specific heat (cal/g- <sup>0</sup> C)	0.50	1	0.031	0.095	0.95	0.21	0.092

- Which substance can gain/loss heat energy quickly?
  - What is the SI unit of Specific heat?
  - Which metal is best for cooking utensils? Why?
  - Which liquid used as coolant? Why?
17. What is meant by "water of crystallization" of a substance? Describe an activity to show the water of crystallisation.

(OR)

Draw a neat diagram shows the reaction between zinc granules and dilute hydrochloric acid.