

**PHYSICAL SCIENCE**  
**FORMATIVE ASSESSMENT-1**  
**( 2019-2020)**

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**Max.Marks:20**

**CLASS: 10**

**NAME OF THE STUDENT:** \_\_\_\_\_

**ROLL NO:** \_\_\_\_\_

**I) Answer the following questions**

**4X1=4M**

1. Write the relation between calorie and joule?
2. A farmer sprayed his agriculture field with quick lime. What is the condition of the soil?
3. Refractive index of glass to water is  $9/8$ . What is the refractive index of water to glass?
4. What is baking powder?

**II) Answer the following questions.**

**2x2=4M**

5. Distinguish between heat and temperature.
6. Observe the following table and answer the given questions.

Material	Air	Water	Kerosene	Benzene	Rocksalt	Diamond
Refractive Index	1.0003	1.33	1.44	1.5	1.54	2.42

- i) Why the refractive index of kerosene is more than refractive index of water?
- ii) In which substance, the speed of the light is least?

**III. Answer the following questions.**

**2x4=8M**

7. How to find the specific heat of the solids experimentally?
8. Write the chemical formula of plaster of paris. How to prepare it? Mention their uses.

**IV) Choose the right answer from the given choices.**

**4x1/2=2M**

9. \_\_\_\_\_ is used as a reagent in the preparation of chloroform.  
A) Sodium carbonate B) Sodium Hydrogen Carbonate C) Gypsum D) Bleaching powder
10. The critical angle of diamond is -----.  
A)  $24.1^\circ$  B)  $24.2^\circ$  C)  $24.3^\circ$  D)  $24.4^\circ$
11. During experiment with glass slab, vertical shift is independent of \_\_\_\_\_.  
A) Object distance from the glass slab B) Refractive index of the glass slab C) Thickness of the glass slab D) Nature of the glass slab
12. Colour of Methyl orange in alkali conditions.  
A) Orange B) Yellow C) Red D) Blue

**V) Fill in the blanks.**

**2x1/2=1M**

13. Mirage is an example of \_\_\_\_\_.
14.  $P^H$  of distilled water is \_\_\_\_\_.

**VI) Answer the following with one word or phrase.**

**2x1/2=1M**

15. Write Snell's Law Equation
16. What is the nature of all non-metal oxides?