

FORMATIVE ASSESSMENT-2
CHAPTERS – 4, 5

Name:..... Section:..... Roll No:..... **Max.Marks:20**

I. Answer the following questions. Each carries four marks. 2 x 4 = 8 M

- 1) Zinc granules react with Dil. HCl to produce Hydrogen gas. How can you perform this experiment in your lab? How do you determine the gas evolved?
- 2) Explain an activity to prove Total internal reflection.

II. Answer the following questions briefly. Each carries two marks. 2 x 2 = 4 M

- 3) Write any two properties of acids.
- 4) The speed of light in glass is 2×10^8 m/s. The speed of light in vacuum is 3×10^8 m/s. Find the Refractive index of the glass.

III. Answer the following in one or two sentences. Each carries one marks. 2 x 1 = 2 M

- 5) Where do we use Plaster of Paris ?
- 6) What is the reason for brilliance of diamonds?

IV. Choose the correct choice and write down in the given brackets. 6 x 1 = 6 M

- 7) Colour of Copper sulphate []
 A. Blue B. Green C. Red D. Yellow
- 8) P^H value of neutral solutions []
 A. 0 B. 7 C. 14 D. 8
- 9) Formula of Washing soda []
 A. $CaCO_3$ B. Na_2CO_3 C. $NaHCO_3$ D. $Ca(HCO_3)_2$
- 10) Angle of deviation due to refraction of light ray through glass slab is []
 A. 0° B. 90° C. 60° D. 180°
- 11) Snell's formula for refraction []
 A. $n_1 \cdot \sin i = n_2 \cdot \sin r$ B. $n_1 \cdot \sin r = n_2 \cdot \sin i$
 C. $n_1 / \sin i = n_2 / \sin r$ D. $n_1 \cdot \sin i = n_2 / \sin r$
- 12) True statement []
 A. Water is optically denser than kerosene
 B. Kerosene is optically denser than water
 C. Water and Kerosene has same refractive indices
 D. Water has more refractive index value than kerosene

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