

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) How can you prove that acidic solution conduct electricity ? Explain the procedure to be followed?
- 2) Explain the formation of mirages with total internal reflection concept.

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

- 3) How can you identify the given substance either acid or base by using methyl orange indicator?
- 4) Read the following table.

	Kerosene	Water
Refractive Index	1.44	1.33

- (i) In which medium the speed of light is more ?
- (ii) Which of the above substances is optically denser?

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

- 5) Name any two olfactory indicators?
- 6) Draw a diagram to show critical angle.

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

- 7) Tooth decay starts when P<sup>H</sup> value ..... [     ]  
 A. equal to 5.5    B. less than 5.5    C. greater than 5.5    D. None of the above
- 8) When Zinc reacts with Dil. HCl , ..... Gas is evolved. [     ]  
 A. Oxygen    B. Hydrogen    C. Nitrogen    D. Carbon dioxide
- 9) Formula of Baking Soda [     ]  
 A. CaCO<sub>3</sub>    B. Na<sub>2</sub>CO<sub>3</sub>    C. NaHCO<sub>3</sub>    D. Ca(HCO<sub>3</sub>)<sub>2</sub>
- 10) Speed of light in vacuum is ..... m/s [     ]  
 A. 2 x 10<sup>8</sup>    B. 3 x 10<sup>8</sup>    C. 2.5 x 10<sup>8</sup>    D. 3 x 10<sup>7</sup>
- 11) Snell's formula for refraction [     ]  
 A. n<sub>1</sub>. Sin i = n<sub>2</sub>. Sin r    B. n<sub>1</sub>. Sin r = n<sub>2</sub>. Sin i  
 C. n<sub>1</sub> / Sin i = n<sub>2</sub> / Sin r    D. n<sub>1</sub>. Sin i = n<sub>2</sub> / Sin r
- 12) One micro meter = ..... m [     ]  
 A. 10<sup>-8</sup>    B. 10<sup>8</sup>    C. 10<sup>-6</sup>    D. 10<sup>6</sup>

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