SLIP TEST- 4

CHAPTER-4 : REFRACTION OF LIGHT AT PLANE SURFACES

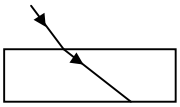
Name:…….. Section:……. Roll No:……..... Max.Marks:20

……

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

1) How mirages are formed? Explain.

2) This figure represents the refraction of light ray through a glass slab. Interpret about it.



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

3) Why is it difficult to shoot a fish swimming in water?

4) The thickness of a glass slab is 10 cm. The vertical shift is 0.5 cm. Find the refractive index of that slab.

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

5) Define refractive index.

6) Write Snell's law.

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

7) Refractive index of Diamond [ ]

A. 1.0003 **B.** 1.31 **C.** 1.44 **D.** 2.42

8) Total internal reflection takes place when light ray travels from ……. [ ]

A. Denser medium to denser medium **B.** Denser medium to rarer medium

C. Rarer medium to denser medium **D.** Rarer medium to rarer medium

9) Velocity of light is more in …….. [ ]

A. Denser medium **B.** Rarer medium

C. Can not say **D.** None of the above

10) Mirages are the effect of …….. [ ]

A. Reflection **B.** Refraction

C. Scattering **D.** Total internal reflection

11) How many times does a light ray get refraction when it incident on a glass slab? [ ]

A. 4 **B.** 3 **C.** 2 **D.** 1

12) At critical angle, the angle of refraction is …… [ ]

A. 90^o **B.** 60^o **C.** 75^o **D.** 30^o

NAGA MURTHY- 9441786635
Contact at : nagamurthysir@gmail.com
Visit at : ignitephysics.weebly.com