



SUBJECT : PHYSICS CHAPTER NUMBER: 5

CHAPTER NAME: LIGHT ENERGY

CHANGING YOUR TOMORROW

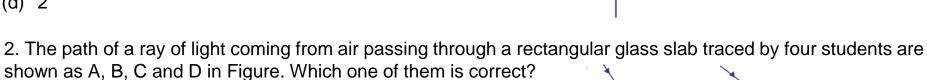
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Home Assignment

Figure shows a ray of light as it travels from medium A to medium B. Refractive index of the medium B relative to medium A is

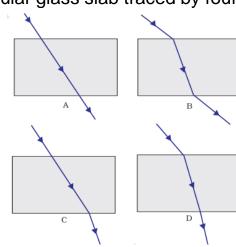
- (a) 3/2
- (b) 2/3
- 1/2
- (d) 2



 45°

60°

- (a) A
- В
- (d) D



Medium B

Medium A



Home Assignment

- 3. You are given water, mustard oil, glycerine and kerosene. In which of these media a ray of light incident obliquely at same angle would bend the most?
- (a) Kerosene
- (b) Water
- (c) Mustard oil
- (d) Glycerine
- 4. A pencil when dipped in water in a glass tumbler appears to be bent at the interface of air and water. Will the pencil appear to be bent to the same extent, if instead of water we use liquids like, kerosene or turpentine. Support your answer with reason.

5. How is the refractive index of a medium related to the speed of light? Obtain an expression for refractive index of a medium with respect to another in terms of speed of light in these two media?



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