



PHYSICS

NCERT - NCERT PHYSICS(TELUGU)

REFRACTON OF LIGHT AT PLANE SURFACES

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1. The speed of the light in a diamond is 1, 24, 000 km/s. Find the refractive index of diamond

if the speed of light in air is 3,00,000 km/s.



2. Refractive index of glass relative to water is 9/8. What is the refractive index of water relative to glass?

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3. The absolute refractive index of water is 4/3.

What is the critical angle?



5. A light ray is incident on air-liquid interface at 45^0 and is refracted at 30^0 . What is the refractive index of the liquid? For what angle of incidence will the angle between reflected

ray and refracted ray be 90^0 ?



6. A ray of light travels from an optically denser to rarer medium. The critical angle of the two media is 'c'. What is the maximum possible deviation of the ray?

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