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Physics MCQs for Competitive Exams Part 11

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Question:

It is possible to observe total internal reflection when light travels from

1. Air to water
2. Air to glass
3. Water to glass
4. Glass to water

Question:

A concave lens has focal length f . A real object placed at a distance $2f$ in front of the lens from the pole produces an image

1. At infinity
2. At f
3. At $\frac{f}{2}$
4. At $\frac{2}{f}$

Question:

The image formed by a plane mirror is

1. Real and same size as the object.
2. Virtual, same size as the object.
3. Real and magnified.
4. None of these.

Question:

36 The limit of resolution of the eye is one minute at a distance x from the eye. Two persons stand with a lateral separation of 3cms. To see the two persons just resolved by the naked eye. X should be about

1. 20 km

2. 15 km
3. 10 km
4. 30 km

Question:

In the displacement method of measuring the focal length of a convex lens, the length of the images in the two positions of the lens between the object and the screen is 9 cm and 4 cm respectively. The length of the object is

1. 6.25 cm
2. 1.5 cm
3. 6 cm
4. 36 cm

Question:

The refracting angle of a prism is A and the refractive index of the material of the prism $\cot \frac{A}{2}$, the angle of minimum deviation is

1. $180 - A$
2. $180 - 3A$
3. $90 - A$
4. $180 - 2A$

Question:

A ray of light travels from vacuum into a medium of refractive index n . The angle of incidence is found to be twice the angle of refraction. The angle of incidence is

1. $\cos^{-1} \times \frac{n}{2}$
2. $2\cos^{-1} \times \frac{n}{2}$
3. $2\sin^{-1} \times n$
4. $2\sin^{-1} \times \frac{n}{2}$

Question:

An object placed at distance 'a' from the focus of a convex lens forms its real image at a distance 'b' from the focus. The focal length of the mirror is

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1. ab
2. $a + b$
3. $a + b^2$
4. $a - b$

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