

Physics MCQs for Competitive Exams Part 9

Question:

Luminous flux is expressed in

1. Lumen
2. Candela
3. Weber
4. Lue

Question:

Light travels through a glass plate of thickness d . If n is the refractive index of glass and c is the velocity of light in vacuum, the time taken by light to travel through the glass plate is

1. $\frac{n}{cd}$
2. $\frac{nc}{d}$
3. $\frac{nd}{c}$
4. ndc

Question:

What is the magnification when an object is placed at $2f$ of a convex mirror?

1. $\frac{1}{3}$
2. $\frac{2}{3}$
3. 1
4. $\frac{3}{2}$

Question:

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A tank is filled with water up to a height of 12.5 cm . The apparent depth of a needle at the bottom of the tank is ($n\text{ of water} = 1.33$)

1. 12.5 cm
2. 9.4 cm
3. 16.6 cm
4. 11.17 cm

Question:

A man under water in a lake is viewing a boy standing on the bank of the lake. Then for him the boy appears to be

1. Shorter
2. Taller
3. Of the same size
4. 16 cm

Question:

A convex mirror placed at a distance of 20 cm from a candle forms a virtual image at the same position as that formed by a plane mirror at a distance of 12 cm from the candle. What is the focal length of the convex mirror?

1. 20 cm
2. 15 cm
3. 10 cm
4. 5 cm

Question:

When light travels from 1 medium to another that remains unaltered is

1. Speed
2. Wave length
3. Frequency
4. Intensity

Question:

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The length of a telescope is 100 cm and magnification is 19. The focal length of the objective and eye piece are

1. $90\text{ cm and }10\text{ cm}$
2. $85\text{ cm and }1\text{ cm c}$
3. $95\text{ cm and }25\text{ cm}$
4. *None of the above*