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## **SCIENCE** LIGHT-MCQ & TERMINOLOGY নতুনদের এই ভিডিগুটি দেখতে হবে

### **BY SOUMI MAHENDRAS**

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What is the relation between focal length (f) and radius of curvature (r) of a curve mirror?

- A: f = 2r
- **B:** f = r/2
- **C:** f = r/3
- **D:** f = 3r/2

What is the focal length of a curve mirror is it has a radius of curvature is 40 cm.

- A: 20 cm
- **B: 35 cm**
- C: 25 cm
- D: 40 cm

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Which type of mirror used in the headlight of a motorcycle? A: Concave mirror B: Convex mirror

- **C: Flat mirror**
- **D: none of the above**

Which type of mirror used in the dental clinic?
A: Concave mirror
B: Convex mirror
C: Flat mirror
D: None of the above

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In case of refraction, if the angle of incidence and the angle of refraction are 45 degrees and 30 degrees respectively, then the angle of deviation is A: 75 ° B: 15° C: 7.5° D: 37.5°

Which of the following has the highest wavelength?
A: X-Ray
B: Gamma ray
C: infrared ray
D: ultraviolet ray

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## When the light is passing from rarer to a denser medium, which is the correct statement?

- A: Incident angle is equal to refracted angle
- **B: Incident angle is greater than refracted angle**
- **C:** Incident angle is less than refracted angle
- **D: Can not be determined**

#### Which physical quantity is remain constant in case refraction?

A: Wavelength of light B: Frequency of light D: Amplitude E: All of the above

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In case of refraction, when the light passes from rarer to a denser medium, if the angle of incident is 65° and angle of refraction is 25°, then the deviation of angle would be-A: 65° B: 25° C: 40° D: 30°

The deviation of light ray when refracted by a parallel glass slab is – A: 90 ° B: 0° C: 45° D: 180°



Which color has the maximum deviation when white color refracted through a prism?
A: Red
B: Violet
C: Green
D: Yellow

Which among the following electromagnetic wave the frequency is maximum?
A: Infrared
B: Ultraviolet
C: X-ray
D: Gama Ray

#### For White light which color has the maximum refractive index? A: Red B: Yellow C: Orange

**D: Violet** 

#### The color of light depends on A: Wavelength B: Frequency C: Amplitude D: All of the above

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Between red and violet, which color has more frequency?

A: Red has more frequency than violet B: Violet has more frequency than red C: Red and violet has the same frequency D: Can not say

#### Between red and violet, which color has greater wavelength?

A: Red has a greater wavelength than violet. B: Violet has a greater wavelength than red. C: Red and violet have the same wavelength. D: Can not say

For which of the following color does a lens has maximum focal length? A: Red B: Yellow C: Green D: Violet

For an object placed at the focus of a convex lens the image will be formed at A: Focus B: Optical center C: Infinity D: Twice the length of focus

What is the type of image form on the retina of our eyes?
A: Real and upright
B: Virtual and upright
C: Real and inverted
D: Virtual and inverted

#### For danger sign, red color is used, because

A: Scattering of red color is less due to large wavelength B: Scattering of red color is less due to small wavelength C: Scattering of red color is greater due to large wavelength D: Scattering of red color is greater due to small wavelenth

Focal length of a convex lens is 15 cm. For which distance an object is placed so that the lens acts as a magnifying glass? A: Between 15 cm and 30 cm B: Less than 15 cm C: Greater than 30 cm D: Exactly at 30 cm

The split of white light into 7 colors by prism is known as A: Diffraction B: Dispersion C: scattering D: Polarization

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#### **The fundamental Principle in Physics:**

- 1. Matter can neither be destroyed not created but it can be transformed from one state to another.
- 2. The smallest Unit of an element is called Atom.
- 3. The simplest form of matter which can retain complete physical and chemical Properties.
- 4. The force of attraction between similar kind of molecules is called Force of cohesion.
- 5. The force of attraction between different kind of molecules is called Force of adhesion.

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**Intermolecular** literally **means** "between molecules".

**Intermolecular space** is the distance between molecules.

**Intermolecular forces (IMF)** are the **forces** which mediate interaction between molecules, including **forces of attraction** or repulsion which act between molecules and other types of neighboring particles.

6. Solids have a definite shape and size because of high Intermolecular forces as the Intermolecular space is very little.

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7. Liquids have only definite volume but no definite shape as the Intermolecular forces are less as the Intermolecular space is large.

8. Gases have no definite shape and volume as the Intermolecular forces are negligible as the Intermolecular spaces are very large.



## THANK YOU.

A Mahendra's

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