

**Q36. A cardboard is placed on a glass of water, and a ten paisa coin is placed on the cardboard. If the cardboard is flicked suddenly in the direction parallel to its surface, then the cardboard flies away, but the coin falls in the glass.**

**The behavior of the coin can be explained by which among the following properties?**

- a. Momentum
- b. Acceleration
- c. Inertia
- d. Friction

**Ans 36: c**

Inertia is the property of matter that is why it continues in its existing state of either rest or motion. It can be changed by an external force. Here in the question the coin falls in the glass even after the cardboard is flicked because it maintains its rest position by the nature of inertia.

**Q37. We use \_\_\_\_\_ lens to correct Hypermetropia.**

- a. Biconvex
- b. biconcave
- c. concave
- d. convex.

**Ans37: - d**

The defect of vision in which the image of nearby objects is formed behind the retina, is hypermetropia. Hypermetropia can be corrected by using a convex lens. A convex lens converges the incoming light such that the image is formed on the retina.

**Q38. Name the bending of light, if the beam of light passes obliquely from one medium to another.**

- a) Refraction
- b) Dispersion
- c) Reflection
- d) Deviation

**Ans38:- a**

If the beam of light passes obliquely from one medium to another, then the bending of light is known as refraction. Whereas, reflection means change in direction of light, at an interface, between two different mediums, such that the light returns into the medium from where it had originated. Dispersion is the property by which spreading of light takes place according to its color, as it passes through an object. Deviation is the bending of a beam of light, away from a straight line by an angle called angle of deviation.

**Q39. A rocket and a jet engine differ for the following reason?**

1. Their working principles are entirely different.
2. A rocket uses only liquid fuels whereas a jet can use solid fuels as well.
3. While a rocket carries its own oxygen supply a jet draws its air out of the atmosphere

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