

Q. 3 An object approaches a convergent lens from the left of the lens with a uniform speed 5 m/s and stops at the focus. The image

- (a) moves away from the lens with an uniform speed 5 m/s
- (b) moves away from the lens with an uniform acceleration
- (c) moves away from the lens with a non-uniform acceleration
- (d) moves towards the lens with a non-uniform acceleration

Ans. (c) When an object approaches a convergent lens from the left of the lens with a uniform speed of 5 m/s, the image away from the lens with a non-uniform acceleration.