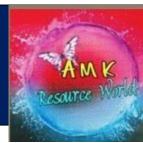
AMK Resource World

SSLC - Daily Practice Papers



LIGHT REFLECTION & REFRACTION

CLICK & JOIN



SCIENCE PRACTICE PAPER 07

Total Marks: 20

I. Choose the Most Appropriate Answers

 $3 \times 1 = 3$

- 1. A 10 mm long awl pin is placed vertically in front of a concave mirror. A 5 mm long image of the awl pin is formed at 30 cm in front of the mirror. The focal length of this mirror is
 - a. -30 cm
- b. -20 cm
- c. -40cm
- d. -60 cm
- 2. A full length image of a distant tall building can definitely be seen by using
 - a. a concave mirror

c. a plane mirror

b. a convex mirror

- d. both concave & plane mirror
- 3. The mirror used as rear-view mirror in vehicles
 - a. convex mirror

c. cylindrical mirror

b. plane mirror

d. concave mirror

II. Answer the following questions

 $2 \times 1 = 2$

- 4. Draw the ray diagram in to show the position and nature of the image formed when the object is placed at the centre of curvature of a concave mirror.
- 5. Which kind of mirrors are used in the headlights of a motor-car and why?

III. Answer the Following questions

 $4 \times 2 = 8$

- 6. Why does a light ray incident on a rectangular glass slab immersed in any medium emerges parallel to itself? Explain using a diagram..
- 7. Explain with the help of a diagram, why a pencil partly immersed in water appears to be bent at the water surface
- 8. Draw ray diagrams to represent the nature, position and relative size of the image formed by a convex lens for the object placed at $2F_1$ between F_1 and the optical centre O of lens
- 9. Define power of a lens? One student uses a lens of focal length 50 cm and another of -50 cm. What is the nature of the lens and its power used by each of them?

IV. Answer the following questions

 $1 \times 3 = 3$

10. The image of an object placed at 60 cm in front of a lens is obtained on a screen at a distance of 120 cm from it. Find the focal length of the lens. What would be the height of the image if the object is 5 cm high?.

V. Answer the following questions

 $1 \times 4 = 4$

11. How far should an object be placed from a .convex lens of focal length 20 cm to obtain its image at a distance of 30 cm from the lens? What will be the height of the image if the object is 6 cm tall?