

1. Light travels in:

- a) Straight line
- b) Curves
- c) Spiral
- d) Zig-zag

2. Which mirror shows wider area?

- a) Plane
- b) Concave
- c) Convex
- d) None

3. Convex lens bends light:

- a) Outward
- b) Inward
- c) Both
- d) None

Assertion–Reason (1 mark each)

4. **A:** Concave mirrors are used in shaving mirrors.

R: They make images smaller.

5. **A:** Convex mirrors curve outward.

R: They show a wider area.

Case Study (4 marks)

6. Shivani used a plane mirror to get ready, a concave mirror for eyebrow shaping, and wore glasses with convex lenses.

- a) Why was a plane mirror used?
- b) Why concave mirror for eyebrow shaping?
- c) What property of convex lenses helps in glasses?
- d) Is this bending of light reflection or refraction?

2-Mark Questions

- 7. Define a plane mirror.
- 8. Define reflection of light.

3-Mark Questions

- 9. Give two uses of convex lenses.

10. Differentiate between convex and concave mirrors.

11. State three uses of convex mirrors.

4-Mark Question

12. Draw diagrams of convex and concave mirrors, label and explain one use of each.

