Chapter 15

MULTIPLE CHOICE QUESTIONS

- 1. (c)
- 2. (a)
- 3. (b)
- 4. (b)

- 5. (b)
- 6. (b)
- 7. (c)
- 8. (b)

VERY SHORT ANSWER QUESTIONS

- 9. Concave lens.
- 10. (a) concave
 - (b) plane
 - (c) convex
 - (d) concave
- 11. (a) False
 - (b) False
 - (c) True
 - (d) False

SHORT ANSWER QUESTIONS

- 12. Convex mirror. Convex mirrors can form images of objects spread over a large area. So these help the drivers to see the traffic of a large area behind them.
- 13. A convex lens; B concave lens.
- 14. No, laser torch gives out light of only one colour.

- 16. The driver will not be able to see traffic spread over a large area behind him.
- 17. The beam of light will be diffused with lower intensity.
- 18. The image formed on the screen could be enlarged and erect if the object is placed upside down between F and 2F of the lens.
- 19. If the letters appear bigger/magnified, then the lens is a convex lens. If the letters appear smaller, then the lens will be concave lens.
- 20. He will fix a convex mirror because it can form images of object spread over a large area.
- 21. The object is moving away from the lens.

Long Answer Questions

- 22. **Hint**: (i) By using a concave mirror and a screen.
 - (ii) By using a convex lens and a screen.
- 23. It is a convex lens.
 - No, when the object is placed close to a convex lens then the image formed is virtual which cannot be obtained on screen.
- 24. **Hint**: By forming images with the help of the three mirrors.