

**St. Andrews Scots Sr. Sec. School**  
**9th Avenue, I.P. Extension, Patparganj, Delhi – 110092**  
**Session: 2024 – 2025**  
**(Worksheet-13)**

**Class: VII**

**Subject: Science**

**Chapter: Light**

**Q.1. Define:**

- a) Reflection
- b) Dispersion
- c) spectrum
- d) Light

**Q.2. Fill in the blanks:**

- a) Changing of left side of an object to right side of image is called \_\_\_\_\_
- b) \_\_\_\_\_ lens is also known as a magnifying glass.
- c) A prism splits light into \_\_\_\_\_ colours.
- d) The outer shining surface of a round bottom steel bowl acts as a \_\_\_\_\_ mirror.
- e) The inner surface of the reflector of a torch acts as a \_\_\_\_\_ mirror.

**Q.3. Multiple Choice Questions:**

- a) The colour of light which is deviated the least by prism in the spectrum of white light is
  - (i) violet
  - (ii) green
  - (iii) red
- b) Which of the following can be used to form a real image?
  - (i) Only concave mirror
  - (ii) Only plane mirror
  - (iii) Only convex mirror
- c) Which of the following always diverge light rays?
  - (i) Convex mirror and plane mirror
  - (ii) Concave lens and convex mirror
  - (iii) Concave mirror and convex lens
- d) Which of the following would you prefer to use while reading small letters found in a dictionary?
  - (i) A convex lens
  - (ii) A convex mirror
  - (iii) A concave lens

**Q.4. State whether the following statement is true or false.**

- a) A virtual image is larger than the object can be produced by a convex mirror.
- b) The mirror which can form a magnified image of an object is both convex and concave mirrors.
- c) An object can be seen only if it emits light.
- d) The sides of an object and its image formed by a concave mirror are always interchanged.
- e) The image formed in a plane mirror is behind the mirror.

**Q.5. Short Questions Answers:**

- a) In the formation of a rainbow, what acts as tiny prisms?
- b) Mention the type of image
  - (a) which can be formed on the screen.
  - (b) which cannot be formed on the screen.
- c) A shopkeeper wanted to fix a mirror which will give a maximum view of his shop. What type of mirror should he use? Give reason.
- d) Mention the name of lens which can converge the sun's rays to a point and burn a hole in the piece of paper.