

**TEST**

**Class 8 Science: Reflection of Light Test**

**Total Marks: 25**

**Instructions:**

- Answer all questions to the best of your ability.
- Write your answers clearly and legibly.
- Diagrams should be neat and labelled.

**Section A: Multiple Choice Questions (5 Marks)**

1. When light bounces back from a smooth surface, it is called: (1 mark)
  - (a) Refraction
  - (b) Reflection
  - (c) Dispersion
  - (d) Diffraction
2. The angle of incidence is: (1 mark)
  - (a) The angle between the reflected ray and the normal.
  - (b) The angle between the incident ray and the normal.
  - (c) The angle between the incident ray and the reflected ray.
  - (d) The angle between the surface and the normal.
3. A plane mirror forms: (1 mark)
  - (a) A real and inverted image.
  - (b) A virtual and erect image.
  - (c) A real and erect image.
  - (d) A virtual and inverted image.
4. Which of the following surfaces is a good reflector of light? (1 mark)
  - (a) Wood
  - (b) Paper
  - (c) Polished metal
  - (d) Cloth
5. The law of reflection states that: (1 mark)
  - (a) The angle of incidence is greater than the angle of reflection.
  - (b) The angle of incidence is less than the angle of reflection.

- (c) The angle of incidence is equal to the angle of reflection.
- (d) The incident ray, reflected ray and normal are not on the same plane.

**Section B: Short Answer Questions (10 Marks)**

1. Define the following terms: (4 marks)
  - Incident ray
  - Reflected ray
  - Normal
  - Angle of reflection
2. State the laws of reflection. (2 marks)
3. What is a virtual image? How is it different from a real image? (2 marks)
4. What is lateral inversion, and how is it observed in a plane mirror? (2 marks)

**Section C: Long Answer Questions (10 Marks)**

1. Explain the formation of multiple images in two plane mirrors placed at an angle. (4 marks)
2. A ray of light is incident on a plane mirror at an angle of 30 degrees with the surface of the mirror. What is the angle of incidence and the angle of reflection? Draw a diagram to illustrate your answer. (3 marks)
3. List three applications of plane mirrors in our daily life. (3 marks)