

Assignment for Light, shadows and Reflection

Question 1

Which of the following is a false?

- (a) All objects cast shadows.
- (b) Mirror changes direction of light that falls on it
- (c) image in a plane mirror is of the same size and colour as that of the object.
- (d) Coloured objects form coloured shadows
- (e) The phenomenon of bouncing back of light after falling on the surfaces of the objects is called reflection of light.

Question 2

What is true about reflection from plane mirror?

- (a) The image formed by plane mirror is erect and virtual.
- (b) Size of the image formed by plane mirror is equal to the size of the object.
- (c) The distance of the image behind the plane mirror is equal to the distance of the object from the mirror
- (d) All the above

Question 3

Which of the following is sources of artificial light?

- (a) electric bulb
- (b) Candle
- (c) Torch
- (d) All the above

Question 4

What is lateral inversion?

- (a) Image looks shorter in size
- (b) Image looks larger in size
- (c) The right side of the object appears to be the left side of its image and vice-versa
- (d) None of the above

Question 5

Two statements are given

Statement A: We cannot see our image in the mirror in complete dark room because there is no light to reflect.

Statement B: We cannot see objects through T shaped pipe because light travels through straight line

- (a) Statement A is correct only
- (b) Statement B is correct only
- (c) Statement A and B both are incorrect
- (d) Statement A and B both are correct

Long Answer type questions

Question 6

Distinguish between

- a) transparent, translucent and opaque materials?
- b) Luminous and Non Luminous objects

Question 7

Moon appears bright at night. Is it a luminous or non-luminous body?

Question 8

Explain how we see our image in the Mirror?

Answers

1: (a), (d)

2: (d)

3: (d)

4: (c)

5: (d)

6)

transparent	If we are able to see clearly through an object, it is said to be transparent
translucent	If we are able to see not clearly through an object, it is said to be translucent
opaque	If we cannot see through an object at all, it is an opaque object

luminous	A body which emits light by itself
non-luminous	A body which does not emits light by itself

7)

Moon is a non-luminous body, it does not emit its own light. It reflects the sun light that falls on it.