PRISM WORLD

Std.: 9 (English) | Science 1 | Marks: 20

Date: | Time: 1 hour

Chapter: 11

Q.1 A) Choose the correct alternative and rewrite the sentence **(1)**

If the reflected rays actually do not meet, then such an image is called ……

a. Real image b. Virtual image c. Plane image d. Inverted image

B) Answer the following questions. **(2)**

1) Find co-related terms

Concave mirror **:** Converging mirror **: :** Convex mirror **:** ..... .

2) Find the odd man out:

2) Real image, Same size image, Laterally inverted image, Virtual image

Q.2 A) Give scientific reasons (Any one) **(2)**

1) Concave mirrors are used in torches and car headlights.

2) Concave mirrors used in solar devices.

B) Answer the following questions. (Any two) **(4)**

1) Write short notes

1) Write note on spherical mirror and its types.

2) Distinguish between

Real Image and Virtual Image.

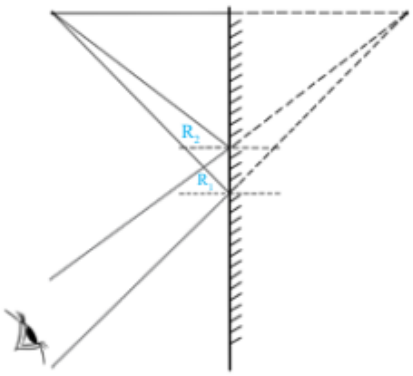
3) An object 2cm height is placed at a distance of 12 cm from a concave mirror which produces a real image of 4 cm height. Find the image distance.

Q.3 Answer the following questions. (Any two) **(6)**

1) How do we determine the direction that an incident ray will take after reflection from a spherical mirror?

2) Rajashree wants to get an inverted image of height 5cm of an object kept at a distance of 30cm from a concave mirror. The focal length of the mirror is 10cm. At what distance from the mirror should she place the screen? What will be the type of image and what is the height of the object?

3) Label the diagram and explain.



Q.4 Answer the following questions. (Any one) **(5)**

1) What sign conventions are used for reflection from a spherical mirror?

2) Explain the terms related to a concave mirror with the help of a neat diagram.