



Vision  ictory

Contact coordinator :-9313629088

class:10th

**Association of Diksha, concepts and success zone
(Test series weekly for class 10th and 12th)**

Time – 2hr

Marks -50

Numerical type question (4 marks each)

1. Find the size ,nature and position of the image formed when an object of size 1 cm is placed at a distance of 15 cm from a concave mirror of focal length 10 cm.
2. An object 2 cm is placed at a distance of 16 cm from a concave mirror which produces a real image 3 cm high .
 - a) What is the focal length of the mirror
 - b) Find the position of the image
3. An object is placed at a distance of 10 cm from a concave of focal length 20 cm
 - a) Draw a ray diagram for the formation image
 - b) Calculate the image distance
 - c) State two characteristic of image formed
4. An object is 5 cm high is placed at a distance of 10 cm from a convex mirror of radius of curvature 30 cm. Find the nature , position and size of the image .

Short question (1 mark each)

5. Which mirror always produces a virtual; erect and diminished image of an object?
Or One want to see an enlarged image of an object in a mirror .what type of mirror should one use?
6. If the magnification of a body of size 1m is 2, what is the size of the image?

General question (3 marks each)

7. What is the relation between the focal length and radius of curvature in case of a Concave mirror? If the radius of a curvature of a concave mirror is 36 cm, What is the focal length?
8. If the image formed by a convex lens is of the same size as that of the object, What is the position of the image with respect to the lens?
9. State with the help of the ray diagram , the formation of image of a finite object Placed in front of a convex lens between f and $2f$. Give two characteristics of the image so formed .
10. If an object of 7 cm height is placed at a distance of 12 cm from a convex lens Of focal length 8 cm , find the position , nature , height of the image .

Descriptive question(5 marks)

11. Explain the phenomenon of mirage and looming.
12. what is Total internal reflection ? State two condition for producing total

Internal reflection.

13. What is the difference between Real and Virtual image?

14. What is meant by apparent depth? Derive the relation between apparent depth, real depth and refractive index.

Visit our **corporate offices :-**

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