

Activity 05 Concave Lenses MCQ

	Answer	all	the	questions	below
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01. A concave lens of focal length f produces an image 1/3 of the	e size of	the object	, the
distance of the object from the lens is			

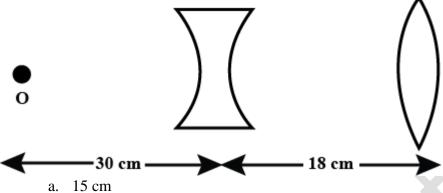
- 02. Concave and convex lenses, each have the same focal length 20cm and they are put in contact to form a combination lens. This combination lens is used to view an object of 5cm length, kept at a distance 20cm from the lens combination. As compared to the object the image will be
 - a. Magnified and inverted.
 - b. Reduced and erect.
 - c. Of the same size as the object and erect.
 - d. Of the same size as the object but inverted.
- 03. Fill in the blank. The image produced by a concave lens is ______.
 - a. always virtual and reduced in size
 - b. always virtual and enlarged
 - c. always real
 - d. sometimes real, sometimes virtual
- 04. A convex lens is in contact with a concave lens. The magnitude of the ratio of their focal length is 2:3. Their equivalent focal length is 30 cm. Their individual focal lengths are (in cms)

a.
$$-75,50$$

b.
$$-10,15$$

d.
$$-15,10$$

05. An object (O) is placed in front of a concave lens of focal length 20 cm as shown in the figure. Determine the focal length of the convex lens if a real image is formed at a distance of 30 cm by the convex lens.



- b. 30 cm
- c. 45 cm
- d. 60 cm