VIBGYOR GROUP OF SCHOOLS

Class test No: 1 / AY 2021-22

Centre Code & Name: VH10202

Board & Grade: CISCE X

Subject: Physics

Max. Marks: 15

Date: 06/04/21

Unit: Refraction through Lens

Max. Time: 30 min

Q1	Define focal Length. If a lens is placed in water instead of air, how does its focal length change?	**[2]**
Q2	Can a concave lens form an image of size two times that of the object? Give reason.	**[2]**
Q3	Where should be an object be placed in front of a convex lens in order to get an enlarged real image and an enlarged virtual image?	**[2]**
Q4	The power of a lens is +0.5 D. a) Name a lens used. b) Calculate the focal length.	**[2]**
Q5	A convex lens forms an image 16 cm long of an object 4 cm long kept at a distance 6 cm from the lens. The object and the image are on the same side of lens. a) What is the nature of image? b) Find the position of image.	**[3]**
Q6	A lens is used to obtain an image of an object placed in front of it. The inverted image is formed between F_2 and $2F_2$ of the lens. a) Name the lens used. b) Where the object is placed in the above case. c) Draw a ray diagram to illustrate the formation of the image obtained.	**[4]**

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