

FORMATIVE ASSESSMENT-2  
CHAPTERS – 4, 5

Name:..... Section:..... Roll No:..... Max.Marks:20

**I. Answer the following questions. Each carries four marks. 2 x 4 = 8 M**

1) How can you determine the focal length of a convex lens by using the following material.

V-stand, Screen, Convex lens, Tape

2) Draw a neat diagram that shows the structure of human eye. Label it.

**II. Answer the following questions briefly. Each carries two marks. 2 x 2 = 4 M**

3) Lens maker's formula is  $\frac{1}{f} = (n-1)\left(\frac{1}{R_1} - \frac{1}{R_2}\right)$ . Explain the terms in this formula.

4) Keerthana is a back bench student. She is unable to see the content on the black board.

What is the eye defect she has ? If you were a doctor what do you suggest her ?

**III. Answer the following in one or two sentences. Each carries one marks. 2 x 1 = 2 M**

5) Can we make a lens by using Clay ? If not give the reason.

6) The sun is red in mornings and evenings. What is the phenomena behind it ?

**IV. Choose the correct choice and write down in the given brackets. 6 x 1 = 6 M**

7) Focal length of a Double concave lens is ..... [     ]

A. Positive                      B. Negative                      C. Can't say                      D. None of these

8) Focal length of a convex lens is 20 cm. If object is placed at 40 cm, the image can be collected at ..... [     ]

A. 20 cm                      B. 30 cm                      C. 40 cm                      D. 27 cm

9) Concave lens forms real image in the following situation [     ]

A. Object kept between C and F                      B. Object kept beyond C  
C. Object kept between F and P                      D. None of the above

10) Splitting of white light in to colours is called ..... [     ]

A. Scattering                      B. Dispersion  
C. Refraction                      D. Total internal reflection

11) Doctor advised to use 2.5 D lens. What is its focal length ? [     ]

A. 20 cm                      B. 30 cm                      C. 40 cm                      D. 50 cm

12) Least distance of distinct vision of human eye ..... [     ]

A. 20 cm                      B. 30 cm                      C. 25 cm                      D. 10 cm

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