

SLIP TEST- 7  
CHAPTER- 7 : HUMAN EYE AND COLOURFUL WORLD

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

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

1) Latha wants to produce a rainbow in her classroom. Suggest the required material.

Explain, how can you perform that activity?

2) What is Hypermetropia? How can we correct it? Explain with ray diagrams.

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

3) Why is the sky blue?

4) A prism with an angle  $A = 60^\circ$  produce an angle of minimum deviation of  $30^\circ$ . Find the refractive index of material of the prism?

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

5) Define dispersion.

6) What are the colours present in a rainbow (VIBGYOR)?

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

7) Vamsi Madhav is a boy of 3 years old. The value of least distance of distinct vision for him is about [    ]

- A. 25 cm                      B. 30 cm                      C. 8 cm                      D. 15 cm

8) Doctor advised to use 4D lens. What is the focal length? [    ]

- A. 25 cm                      B. 50 cm                      C. 75 cm                      D. 100 cm

9) The maximum focal length of eye lens is about [    ]

- A. 2.5 cm                      B. 2.27 cm                      C. 5 cm                      D. 2.3 cm

10) The size of an object as perceived by an eye depends primarily on [    ]

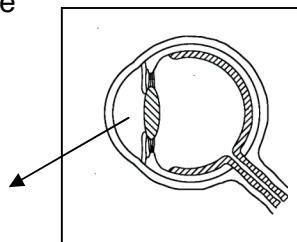
- A. actual size of the object                      B. distance of the object from the eye  
C. aperture of the pupil                      D. Size of the image formed on the retina

11) During refraction, ..... will not change. [    ]

- A. wave length                      B. frequency  
C. speed of light                      D. All the above

12) Identify the part shown in the figure. [    ]

- A. aqueous humour                      B. pupil  
C. cornea                      D. retina



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