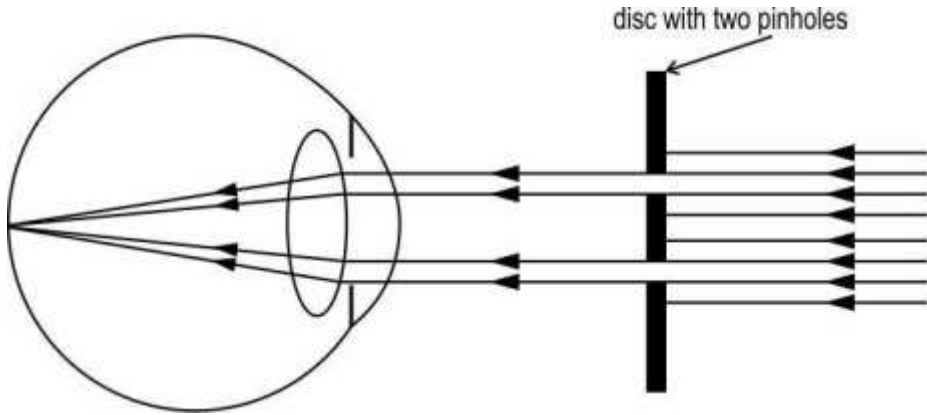


7. HUMAN EYE AND COLOURFUL WORLD

Q. No	Question	Marks
Free Response Question/ Subjective Question		
Q.24	An autorefractor, which is used to automatically measure the refractive errors in a person's eye, makes use of the Scheiner principle explained below. Parallel rays of light from a distant object are limited to two parallel bundles of light using a disc with two pinholes. For an eye with no refractive error, the rays would be focused on the retina, where only one spot can be observed.  (a) For a myopic eye, how many spots will be observed on the retina? (b) Draw a diagram showing how the light rays fall on the retina of a myopic eye? (c) What could be the reason for the observation?	3

Answer Key & Marking Scheme

Q. No	Answers	Marks
Q.24	(a) 2 spots (b) (c) 1 mark for any one of the following: -elongation of the eyeball -excessive curvature of the eye lens	3