

BIOLOGY

BOOKS - NAND LAL PUBLICATION

THE HUMAN EYE AND THE COLOURFUL WORLD

Intext Questions

1. What is meant by power of accommodation of the eye?



2. What is the far point and near point of human eye with normal vision?



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Activity 11 1

1. Draw a diagram to show the incident ray refracted ray, emergent ray and angle of

deviation.



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2. Draw a diagram to show the incident ray refracted ray, emergent ray and angle of deviation.



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Activity 11 2

1. What do you observe ?

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2. Which colour is at the top of spectrum?



3. Which colour is at the bottom of spectrum of white light?



Activity 11 3

1. Name the lens used to observe scattering of light experimentally.



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2. How does scattering of light occur?



3. Which kind of light is scattered more as its why?



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4. Why do we observe, blue light from three sides of the glass tank?



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Exercises

1. The human eye can focus on objects different distances by adjusting the focal length the eye lens. This is due to:

A. presbyopia.

B. accommodation.

C. near-sightedness.

D. far-sightedness.

Answer: B



2. The human eye forms the image of an object	t
at its	

A. cornea.

B. iris.

C. pupil.

D. retina.

Answer: D



3. The least distance of distinct vision for a young adult with normal vision is about:

A. 25 m.

B. 2.5 cm.

C. 25 cm.

D. 2.5 m.

Answer: C



4. 7	The d	hange	in f	ocal	length	of a	an	eye	lens	is
cau	ısed	by the	acti	on o	f the:					

A. pupil.

B. retina.

C. ciliary muscles.

D. iris.

Answer: C



5. Why is a normal eye not able to see clearly the objects placed closer than 25 cm?



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6. What happens to the image distance in the eye when we increase the distance of an object from the eye?



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7. Explain atmospheric refraction. Why do stars twinkle?



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8. Why planets do not appear twinkling?



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9. Why does the sun appear reddish in the morning (as well as in evening)?



10. Why does the sky appears dark instead of blue to an astronaut?



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Additional Questions

1. What is the fucntion of retina in human eye?



2. What is pupil?



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3. Name the cells responsible for colour perception.



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4. What is blind spot?



5. What is meant by "far point of eye"?



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6. What is colour blindness?



7. Explain, how does the eye adjust itself when person enters a dark cinema hall from bright sunnshine.

