PHYSICS

NCERT - NCERT PHYSICS(HINGLISH)

THE HUMAN EYE AND COLOURFUL WORLD

Exercise

1. What is meant by accommodation of the eye ?

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2. A person with a myopic eye cannot see objects beyond $1.2m$ distinctly. What should be the type of corrective lens to restore proper vision ?

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3. For a normal eye, the least distance of distinct vision is.....and far point is..... .

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4. A student has difficulty reading the blackboard while sitting in the last row. What could be the defect the child is suffering from? How can it be corrected?

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5. The human eye can focus objects at different distances by adjusting the focal length of the eye lens. This is due to

A. presbyopia

B. accommodation

C. near-sightedness

D. far-sightedness

Answer:

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

A. cornea

B. iris

C. pupil

D. retina

Answer:

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7. For a normal eye, the least distance of distinct vision is

A. 25 m

B. 2.5 cm

C. 25 cm

D. 2.5 m

Answer:

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8. The change in focal length of an eye lens is caused by the action of the

A. pupil

B. retina

C. ciliary muscles

D. iris

Answer:

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9. A person wears eye glasses with a power of $-5.5D$ for distance viewing. His doctor prescribes a correction of $+1.5D$ for his near

vision. What is the focal length of the lens used for correcting (i) distant vision and (ii) near vision?

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10. The far point of a myopic person is 80 cm in front of the eye. What is the nature and power of the lens required to correct the problem?

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11. Make a diagram to show how hypermetropia is corrected. The near point of a hypermetropic eye is $1 metre$. What is the power of the lens required to correct this defect ? Assume that the near point of the normal eye is $25 cm$.

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

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13. Why do stars twinkle?

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14. Explain why the planets do not twinkle?

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15. Why does the Sun appear reddish early in the morning?

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16. Why does the sky appear dark instead of blue to an astronaut?

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