Foundation

UDAAN 2025

Physics

DHA: 01

Human Eye & the Colorful World

Q 1 The central circular aperture of ____ is called__

(A) Iris, pupil
(B) pupil, iris
(C) retina, iris
(D) none of these

Q 2 The range of vision of a normal human eye is from

(A) 100 cm to 25 cm
(B) 1 km to 25 cm
(C) infinity to 25 m
(D) infinity to 25 cm

Q 3 The screen behind the eye lens is called the

(A) iris
(B) ciliary muscle
(C) retina
(D) pupil

Q 4 Cornea is a transparent spherical structure which

(A) reflects light
(B) scatters light
(C) refracts light
(D) None of these

Q 5 A student sitting on the last bench can read the letters written on the blackboard but is not able to read the letters written in his textbook. Which of the following statements is correct?

(A) The near point of his eyes has receded away
(B) The near point of his eyes has come closer to him
(C) The far point of his eyes has come closer to him
(D) The far point of his eyes has receded away

Q 6 A person cannot see distinctly objects kept beyond 2 m. This defect can be corrected by using a lens of power

(A) + 0.5 D
(B) – 0.5 D
(C) + 0.2 D
(D) – 0.2 D

Q 7 Which of the following statement is correct?

(A) A person with myopia can see distant objects clearly
(B) A person with hypermetropia can see nearby objects clearly
(C) A person with myopia can see nearby objects clearly
(D) A person with hypermetropia cannot see distant object clearly

Answer Key

Q1	**A**
Q2	**D**
Q3	**C**
Q4	**C**
Q5	**A**
Q6	**B**
Q7	**C**

Hints & Solutions

Q 1 **Text Solution:**

The central circular aperture of iris is called pupil

Video Solution:

Q 2 **Text Solution:**

The range of vision of a normal human eye is from infinity to 25 cm

Video Solution:

Q 3 **Text Solution:**

The retina is the light-sensitive layer of tissue at the back of the eyeball. Images that come through the eye's lens are focused on the retina.

Video Solution:

Q 4 **Text Solution:**

The cornea, with the anterior chamber and lens, refracts light.

Video Solution:

Q 5 **Text Solution:**

Because the boy is suffering from hypermetropia or far sightedness.

Video Solution:

Q 6 **Text Solution:**

The eye defect in which a person cannot see objects beyond near points or far objects but can see the near objects clearly is called Myopia. And it can be corrected by using diverging lens.

Video Solution:

Q 7 **Text Solution:**

A person with myopia can see nearby objects clearly.

Video Solution: