

Udaan 2025
Biology
Control and Coordination

DHA: 02

- Q 1** The communication between CNS and other parts of the body is facilitated by:
(A) Peripheral nervous system
(B) Brain
(C) Spinal cord
(D) Reflex actions

- Q 2** The number of pairs of nerves which arises from the spinal cord is:
(A) 21 (B) 31
(C) 41 (D) 51

- Q 3** Following are certain reflex actions occurring in our body.
(i) Moving to the side of road when a speeding car approaches.
(ii) Closing of eyes in response to a sudden bright light.
(iii) Shouting when we are suddenly disturbed or get scared
(iv) Withdrawing hands on touching a hot surface.
The reflex arc given below, will be occurring for,
Receptors (sense organs) $\xrightarrow[\text{neurons}]{\text{Sensory}}$ Sensory Spinal cord
 $\xrightarrow[\text{neurons}]{\text{Motor}}$ Target/effectors
(A) (i) and (ii) (B) (i), (ii) and (iii)

- (C) (i), (ii), (iii) and (iv) (D) (ii) and (iv)

- Q 4** Consider the following statements.
I. Reflex action is the sudden action in response to something in the environment.
II. Sensory neurons transmit signals from spinal cord to muscles.
III. Motor neurons transmit signals from receptors to spinal cord.
IV. The path through which signals are transmitted from a receptor to a muscle or a gland is called reflex arc.
Which of the above statements are correct?
(A) I and II (B) I and III
(C) I and IV (D) I, II and III

- Q 5** Which among the following represents the correct sequence of reflex arc?
(A) Receptor → sensory nerve → motor nerve → spinal cord → muscle
(B) Receptor → motor nerve → spinal cord → sensory nerve → muscle
(C) Receptor → sensory nerve → spinal cord → muscle → motor nerve
(D) Receptor → sensory nerve → spinal cord → motor nerve → muscle

Answer Key

Q1 A
Q2 B
Q3 C

Q4 C
Q5 D



Hints & Solutions

Q 1 Text Solution:

The communication between CNS and other parts of the body is facilitated by Peripheral nervous system. Hence, the correct option is **(A) Peripheral nervous system.**

Video Solution:



Q 2 Text Solution:

The number of pairs of nerves that arises from the spinal cord is:

Correct answer is **(B) 31**

Video Solution:



Q 3 Video Solution:



Q 4 Text Solution:

Sensory neurons transmit signals from receptors to CNS. Motor neurons transmit signals from CNS to muscles/glands.

Video Solution:



Q 5 Text Solution:

Receptor → sensory nerve → spinal cord → motor nerve → muscle

Video Solution:



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