

Chapter - 7

Control and Coordination

(Assertion and Reasoning Questions)

Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (a)** Both A and R are true and R is the correct explanation of A.
- (b)** Both A and R are true but R is not the correct explanation of A.
- (c)** A is true but R is false.
- (d)** A is false but R is true.

Q.1. Assertion(A) : Insulin regulates blood sugar level.

Reason (R) : Insufficient secretion of insulin will cause diabetes.

Q.2. Assertion(A) : Animals can react to stimuli in different ways.

Reason (R) : All animals have a nervous system and an endocrine system involving hormones.

Q.3. Assertion(A) : The effect of auxin hormone on the growth of root is exactly opposite to that on a stem.

Reason (R) : Auxin hormone increases the rate of growth in root and decreases the rate of growth in stem.

Q.4. Assertion(A) : A receptor is a specialized group of cells in a sense organ that perceive a particular type of stimulus.

Reason (R) : Different sense organs have different receptors for detecting stimuli.

Q.5. Assertion(A) : Cyton region of nerve fibre collects information for the brain.

Reason (R) : Nerve fibres can either have or lack myelin sheath.

Q.6. Assertion(A) : A nerve impulse is an electrochemical event.

Reason (R) : In a nerve impulse there are changes in the resting potential which spreads down the nerve fibre.

Q.7. Assertion(A) : The brain is also known as the central nervous system.

Reason (R) : Central nervous system controls and regulates the voluntary actions.

Q.8. Assertion(A) : The spinal nerves are 31 in number.

Reason (R) : Spinal nerves only have sensory neurons in them

-X-X-X-

ANSWER KEY

Q.1 : (a)

Q.2 : (a)

Q.3 : (c)

Q.4 : (b)

Q.5 : (d)

Q.6 : (a)

Q.7 : (d)

Q.8 : (c)