

Control and Coordination

Question 1.

Assertion: Brain is a delicate organ which is protected from injury.

Reason: The bony box protects the brain from any shock.

- (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.
- (e) Both A and R are false.

▼ Answer

- (c) A is true but R is false.

Question 2.

Assertion: Reflex Arc works faster than thinking process of brain.

Reason: Reflex Arc works in case of those animals who do not have thinking process.

- (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.
- (e) Both A and R are false.

▼ Answer

- (c) A is true but R is false.

Question 3.

Which of the following acts as both endocrine and exocrine glands?

- (a) Adrenal
- (b) Pituitary
- (c) Ovaries
- (d) Pancreas

▼ Answer

- (d) Pancreas

Question 4.

Which of the following is not associated with growth of plant?

- (a) Auxin
- (b) Gibberellins
- (c) Cytokinins
- (d) Abscisic acid

▼ Answer

- (d) Abscisic acid

Question 5.

Which hormone regulates the ionic balance in the body?

- (a) Glucagon
- (b) Thyroxine

- (c) Testosterone
- (d) Vasopressin

▼ Answer

- (d) Vasopressin

Question 6.

The main effect of cytokinin in plants is to

- (a) improve the quality of fruits
- (b) prevent the growth of lateral buds
- (c) regulate opening and closing of stomata
- (d) stimulate cell division

▼ Answer

- (d) stimulate cell division

Question 7.

Reflex actions are mediated through

- (a) brain
- (b) effectors
- (c) spinal cord
- (d) receptors

▼ Answer

- (c) spinal cord

Question 8.

How many pairs of cranial nerves are present in man?

- (a) 12
- (b) 21
- (c) 31
- (d) 41

▼ Answer

- (a) 12

Question 9.

Any change in the environment to which an organism responds is called

- (a) stimulus
- (b) coordination
- (c) response
- (d) hormone

▼ Answer

- (a) stimulus

Question 10.

The highest coordinating centre in the human body is

- (a) spinal cord
- (b) heart
- (c) brain
- (d) kidney

▼ Answer

(c) brain

Question 11.

Which of the following is a plant hormone?

- (a) Insulin
- (b) Thyroxin
- (c) Oestrogen
- (d) Cytokinins

▼ Answer

(d) Cytokinins

Question 12.

Which part of nervous system controls the reflex activities of the body?

- (a) Brain
- (b) Spinal cord
- (c) Cerebrum
- (d) Cerebellum

▼ Answer

(b) Spinal cord

Question 13.

A part of the body which responds to the instructions sent from nervous system is called

- (a) receptor
- (b) effector
- (c) nerves
- (d) muscles

▼ Answer

(b) effector

Question 14.

The substance that result into the fall of mature leave and fruits from plants is due to :

- (a) auxin
- (b) gibberellin
- (c) ABA
- (d) cytokinin

▼ Answer

(b) gibberellin

Question 15.

Which nerves transmit impulses from the central nervous system towards muscle cells?

- (a) Sensory nerves
- (b) Motor nerves
- (c) Relay nerves
- (d) Cranial nerves

▼ Answer

(b) Motor nerves

Question 16.

Breathing is controlled by which part of the brain?

- (a) Cerebrum
- (b) Cerebellum
- (c) Hypothalamus
- (d) Medulla oblongata

▼ Answer

(d) Medulla oblongata

Question 17.

Which of the following acts as both endocrine and exocrine gland?

- (a) Pancreas
- (b) Thyroid
- (c) Adrenal
- (d) Liver

▼ Answer

(a) Pancreas

Question 18.

The main function of abscisic acid in plants is

- (a) to promote cell division.
- (b) to inhibit growth.
- (c) to promote growth of stem.
- (d) to increase the length of cells.

▼ Answer

(b) to inhibit growth.

Question 19.

Movement of sunflower in accordance with the path of Sun is due to

- (a) Chemotropism
- (b) Geotropism
- (c) Phototropism
- (d) Hydrotropism

▼ Answer

(c) Phototropism

Question 20.

Response of plant roots towards water is called:

- (a) Chemotropism
- (b) Phototropism
- (c) Hydrotropism
- (d) Geotropism

▼ Answer

(c) Hydrotropism

Question 21.

Which plant hormone promotes dormancy in seeds and buds?

- (a) Auxin
- (b) Gibberellin
- (c) Cytokinin
- (d) Abscisic acid

▼ Answer

(d) Abscisic acid

Question 22.

Roots of plants are:

- (a) positively geotropic
- (b) negatively geotropic
- (c) positively phototropic
- (d) None of these

▼ Answer

(a) positively geotropic

Question 23.

Assertion: Plants do have a nervous system for control and coordination.

Reason: Plants use electro chemical means to convey information from cell to cell.

- (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.
- (e) Both A and R are false.

▼ Answer

(d) A is false but R is true.

Question 24.

Assertion: On attaining puberty, breast size increases and reproductive organs develop in females.

Reason: Ovaries release hormone proges-terone in female.

- (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.
- (e) Both A and R are false.

▼ Answer

(b) Both A and R are true but R is not the correct explanation of A.

Question 25.

Assertion: Impulse travels from dendrite to cell body and then along the axon to its end.

Reason: Information acquired at the end of the dendrite tip of a nerve cell sets off an electric impulse.

- (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.
- (e) Both A and R are false.

▼ Answer

(a) Both A and R are true and R is the correct explanation of A.

Question 26.

Which of the following is not a ductless gland?

- (a) Adrenal
- (b) Liver
- (c) Thyroid
- (d) Pituitary

▼ Answer

(b) Liver

Question 27.

Which endocrine gland is also known as 'master gland'?

- (a) Pancreas
- (b) Adrenal
- (c) Pituitary
- (d) Hypothalamus

▼ Answer

(c) Pituitary

Question 28.

Ageing in human beings is caused by disappearance of which of the following glands?

- (a) Adrenal
- (b) Pituitary
- (c) Thyroid
- (d) Thymus

▼ Answer

(d) Thymus

Question 29.

Which statement is incorrect about auxins?

- (a) They promote the growth of root
- (b) They promote the growth of shoot
- (c) They influence the formation of flower and ripening of fruit
- (d) They inhibit the growth of root

▼ Answer

(a) They promote the growth of root

Question 30.

The hormone that is used to keep flowers fresh is

- (a) cytokinin
- (b) gibberellins
- (c) auxin
- (d) abscisic acid

▼ Answer

(a) cytokinin

Question 31.

Which of the following tissues provide control and coordination in animals?

- (a) Nervous and Skeletal
- (b) Muscular and Skeletal
- (c) Muscular and Transport
- (d) Nervous and Muscular

▼ Answer

- (d) Nervous and Muscular

Question 32.

The longest fibre on the cell body of a neuron is called

- (a) sheath
- (b) cytoplasm
- (c) axon
- (d) dendrites

▼ Answer

- (c) axon

Question 33.

Posture and balance of the body is controlled by

- (a) Pons
- (b) Medulla oblongata
- (c) Cerebellum
- (d) Cerebrum

▼ Answer

- (c) Cerebellum

Question 34.

Select the mismatched pair

- (a) Adrenaline – Pituitary gland
- (b) Testosterone – Testes
- (c) Estrogen – Ovary
- (d) Thyroxin – Thyroid gland.

▼ Answer

- (a) Adrenaline – Pituitary gland

Question 35.

Identify which of the following statements about thyroxin is incorrect?

- (a) Thyroid gland requires iodine to synthesize thyroxin.
- (b) Thyroxin is also called thyroid hormone.
- (c) It regulates protein, carbohydrates and fat metabolism in the body.
- (d) Iron is essential for the synthesis of thyroxin.

▼ Answer

- (d) Iron is essential for the synthesis of thyroxin.

Question 36.

Visceral nervous system controls and integrates the function of –

- (a) Urinary bladder
- (b) Blood vessels
- (c) Heart
- (d) All of the above

▼ Answer

(d) All of the above

Question 37.

The neurons that carry nerve impulse from spinal cord to effectors are called:

- (a) Sensory neurons
- (b) motor neurons
- (c) Inteneurons
- (d) spinal neurons

▼ Answer

(b) motor neurons.

Question 38.

Main function of cerebrum is

- (a) thinking
- (b) hearing
- (c) memory
- (d) balancing

▼ Answer

(a) thinking

Question 39.

Which of the following is a plant hormone?

- (a) Insulin
- (b) Thyroxin
- (c) Oestrogen
- (d) Cytokinin

▼ Answer

(d) Cytokinin

Question 40.

Which gland secretes the growth hormone?

- (a) Pituitary gland
- (b) Thyroid
- (c) Hypothalamus
- (d) Adrenal

▼ Answer

(a) Pituitary gland

Question 41.

Junctions of two neurons in called.

- (a) Synapse
- (b) Synapsis
- (c) Joint
- (d) Junction

▼ Answer

- (a) Synapse

Question 42.

Fall of mature leaves and fruits from plants is triggered by which of the following substance?

- (a) Auxin
- (b) Cytokinin
- (c) Gibberellin
- (d) Abscisic acid

▼ Answer

- (d) Abscisic acid

Question 43.

When a person is suffering from severe cold, he or she cannot –

- (a) Differentiate the taste of an apple from that of an ice – cream.
- (b) Differentiate red light from green light.
- (c) Differentiate a hot object from a cold object.
- (d) Differentiate the smell of a perfume from that of an agarbatti

▼ Answer

- (d) Differentiate the smell of a perfume from that of an agarbatti.

Question 44.

Which plant hormone promotes cell division?

- (a) Auxin
- (b) Gibberellin
- (c) Cytokinin
- (d) Abscisic acid

▼ Answer

- (c) Cytokinin

Question 45.

The brain is lodged inside the cavity of skull known as :

- (a) Piamater
- (b) Duramater
- (c) Cranium
- (d) Meninges

▼ Answer

- (c) Cranium