

SAMPLE QUESTIONS

Control and Coordination



1.

The gap between two neurons is called a :

- (a) dendrite**
- (b) synapse**
- (c) axon**
- (d) impulse**

Answer. (b) synapse

2.

The brain is responsible for :

- (a) thinking**
- (b) regulating the heart beat**
- (c) balancing the body**
- (d) all of the above**

Answer. (d) all of the above

3.

Which of the following is a plant hormone ?

- (a) Insulin**
- (b) Thyroxine**
- (c) Oestrogen**
- (d) Cytokinin**

Answer. (d) Cytokinin

4.

How do auxins promote the growth of a tendril around a support ?

Answer

When the tip of a tendril touches a support, then the auxins present in its tip move to that side of tip which is away from the support. Auxins promote growth.

5.

What is the general name of chemical substances which bring about control and coordination in plants ?

6.

Which plant hormone is responsible for the wilting and falling of leaves ?

7.

Which plant hormone makes a stem (or shoot) bend towards light ?

8.

What is a plant hormone ? Name four plant hormones. State one function of each.

9.

(a) What does a root do in response to gravity ? What is this phenomenon known as ?

(b) What does a stem (or shoot) do in response to light ? What is this phenomenon known as ?

10.

What is a tendril ? Name the two types of tendrils. What does a tendril do in response to the touch of a support ? What is this phenomenon known as ?

11.

(a) Define geotropism. Give one example of geotropism.

(b) What is meant by 'positive geotropism' and 'negative geotropism ? Give one example of each type.

(c) Name one plant part which exhibits positive thigmotropism.

12.

If we happen to touch a hot object unknowingly, we immediately pull back our hand. What is this type of action known as ?

13.

Name the most important part of the human brain.

14.

Which part of the brain maintains posture and balance of the body ?

15.

What is the name of the system of glands which produces hormones ?

16.

Which gland secretes the growth hormone ?

17.

Name the hormones secreted by (a) testes, and (b) ovaries

18.

(a) What are the various sense organs in our body ?

(b) What is meant by receptors and effectors ? Give two examples of each.

19.

(a) Name the hormones secreted by the following endocrine glands :

(i) Thyroid gland

(ii) Parathyroid glands

(iii) Pancreas

(iv) Adrenal glands

(b) Write the functions of testosterone and estrogen hormones.

20.

Compare the nervous system and endocrine system (hormonal system) for control and coordination in humans.

21.

- (a) What is a reflex action ? Explain with the help of an example.**
- (b) Define reflex arc. Give the flow chart of a spinal reflex arc.**
- (c) How are involuntary actions and reflex actions different from each other ?**

22.

- (a) Write the names of five endocrine glands found in the human body. Name the hormones secreted by each gland.**
- (b) How do hormones reach the organs they control ?**
- (c) Name the gland which controls the secretion of hormones from the pituitary.**
- (d) How does our body respond when adrenaline is secreted in large amounts into the blood?**

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