: 99672 40893



## Jars Education

Shop no. 2,3,4 hendre pada Badlapur west thane

Time: 1 Hour 30 Minute STD 10 Science Total Marks: 50

**Chapter Based Test** 

						7			
				SECTIO	A NC				
7	k	Select	and write on	e most appropriat	e opt	ion out of the	four opt	tions given	[7]
fo	or		the question					_	
1. The hormone which increases the fertility in males is called:									
		(A) Oestr	ogen.	(B) Testosterone.		(C) Insulin.		(D) Growth ho	rmone.
-	2.	The amount of blood		l su <mark>pp</mark> lied to br <mark>ain</mark> per mi		nute is:			
		(A) 450m	nl	(B) 50ml		(C) 750ml		(D) 1,000ml	
	3.	Select the mis-match		ched <mark>pa</mark> ir:					
		(A) Adrer <mark>Pit</mark> uitary (		(B) Testosterone : Testes.		(C) Estrogen :	Ovary.	(D) Thyroxin : gland.	Thyroic
<ul> <li>4. Which of the following statements are true about the brain?</li> <li>i. The main thinking part of brain is hind brain.</li> <li>ii. Centres of hearing, smell, memory, sight etc are located in fore brain.</li> <li>iii. Involuntary actions like salivation, vomiting, blood pressure are controlled by the medulla in the hind brain.</li> <li>iv. Cerebellum does not control posture and balance of the body.</li> </ul>									
		(A) (i) an		(B) (i), (ii) and (iii)		(C) (ii) and (iii)	_	(D) (iii) and (iv	)
į	5.	Which	of the <mark>follow</mark> ir	ng is a plant hormon	e?				
		(A) Insuli	n.	(B) Thyroxin.		(C) Oestrogen		(D) Cytokinin.	
(	6.	Which a. b. c. d.	of the followir Adrenal. Testes. Pituitary. Ovary.	ng <b>endocrine</b> glands	is unp	oaired?			
-	7.			y.				it close the petal	S

## \* Assertion - Reasoning based questions.

[3]

- 8. In the following questions, a statement of Assertion is given by the corresponding statement of Reason. Of the statements, mark the correct answer as:
  - a. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.

- b. If both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- c. If Assertion is true, but Reason is false.
- d. If Assertion is false, but Reason is true.
- e. If Assertion and Reason both are false.

**Assertion:** Endocrine glands are called ductless glands.

**Reason:** These glands direct pour their secretions into the blood.

- 9. In the following questions, a statement of Assertion is given by the corresponding statement of Reason. Of the statements, mark the correct answer as:
  - a. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
  - b. If both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
  - c. If Assertion is true, but Reason is false.
  - d. If Assertion is false, but Reason is true.
  - e. If Assertion and Reason both are false.

**Assertion:** Thyroxine is secreted by thyroid gland.

**Reason:** Its deficiency leads to diabetes.

10. **Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:

**Assertion:** It is the brain, not the sense organs, that interprets the stimulus.

**Reason:** Sense organs are transducers; they transform the energy of a stimulus to the energy of nerve impulses.

- a. Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.
- b. Both Assertion and Reason are correct but Reason is not the correct explanation for Assertion.
- c. Assertion is correct but Reason is incorrect.
- d. Assertion is incorrect but Reason is correct.

## \* Fill in the blank with correct answer.[1 Mark each] [2] 11. The response of leaves to the sunlight is called .

- 12. Junction between two neurons is called \_\_\_\_\_\_.
- \* Answer the questions.[1 Mark each]
- 13. Which plant hormone is responsible for the wilting and falling of leaves?
- 14. Which parts of the body form the central nervous system?

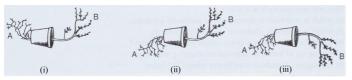
SECTION B

\* Answer the following question. :

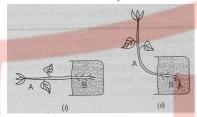
[10]

[2]

1. A potted plant is kept horizontally for a considerable time the position of the part A and B of the potted plant are shown in the following figures:



- a. Which figure shows the correct position taken by the parts A and B of the plant?
- b. What type of phenomenon is exhibited by the figure chosen in (a) above?
- 2. What is the function of receptors and effectors in our body?
- 3. Name the five types of tropisms. How are tropic movements helpful to plants? Explain with an example.
- 4. A potted plant having straight parts A and B was placed horizontally on its side as shown in figure (i). After a few days it was observed that the parts A and B of the plant acquire new positions as shown in Figure (ii).
  - a. Name the phenomenon exhibited by the position of plant parts A and B in Figure (ii).
  - b. Name the stimulus (other than sunlight) which causes plant part A to grow and bend upwards, and plant part B to bend downwards.



5. Explain why the tongue may be considered as both a receptor and an effector organ.

**SECTION C** 

\* Answer short answer questions. [3 Mark each]

[12]

- 1. Give one example to show how the endocrine system coordinates our body activities.
- 2. Adrenal glands are located on top of each kidney. What will happen if these glands do not secrete adrenaline?
- 3. What is the difference between the manner in which movement takes place in a sensitive plant and the movement in our legs?
- 4. How do we detect the smell of an incense stick (agarbatti)?

SECTION D

\* Long answer questions [5 Mark each]

[10]

- 1. A potted plant is growing in a transparent glass jar. In this plant, X and Y are the two growing parts having a lot of meristematic tissue. It is observed that the part X of this plant exhibits positive geotropism but negative phototropism. On the other hand, part Y of this plant exhibits negative geotropism but positive phototropism.
  - a. Name the part X of plant.
  - b. Name the part Y of plant.
  - c. Which part of the plant, X or Y, will exhibit positive hydrotropism?
  - d. Which part of the plant, X or Y, can have tendrils on it?
  - e. Which phytohormone causes the part X to exhibit negative phototropism?
- 2. Name five stimuli which act on plants. Name the type of tropism produced by each one of these stimuli.

**SECTION E** 

\* case - based/data -based questions

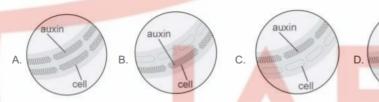
[4]

1. The igure shows the movement of a stem. X is a part of the stem.

The movement of plant hormone auxin in cells regulates cell elongation and growth of plants in a particular direction.



1. What would the size of cells and the distribution of auxin at part X of the stem look like?



- 2. How can the movement of the stem in a particular direction be described?
  - A. Against gravity
  - B. Away from touch
- C. Away from chemicals
- D. Towards a source of water
- 3. Cell division in plants is promoted by \_\_\_\_\_\_
- A. Auxin
- B. Abscisic acid
- C. Cytokinins
- D. Gibberellins

\_\_\_\_

