

QP CODE: 18103622



18103622

Reg No :

Name :

B.Sc.DEGREE(CBCS)EXAMINATION, DECEMBER 2018

First Semester

B.Sc Biotechnology Model III

Core Course - BT1CRT01 - BASIC LIFE SCIENCES

2018 Admission only

7DC8463A

Maximum Marks: 60

Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries 1 mark.

1. What is active absorption?
2. What is chemical digestion?
3. Define respiration
4. What is lymphoma?
5. What is juxtaglomerular apparatus?
6. What is ketonuria?
7. What is reflex action?
8. What is chemical transmission of nerve impulse?
9. What is noncyclic photophosphorylation?
10. What is carboxylation?
11. Write down the functions of abscisic acid in plants.
12. What is short day plants?

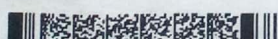
(10×1=10)

Part B

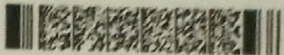
Answer any **six** questions.

Each question carries 5 marks.

13. Give an account on the action of enzymes on various food stuffs.
14. Compare and contrast adult haemoglobin and foetal haemoglobin.
15. Write a note on tubular reabsorption and secretion.
16. Give the structure of neuron with a neat, labelled diagram.
17. Explain main classes of neurotransmitters
18. Explain the role of micronutrients in plant growth.
19. Describe the structure of chloroplast.



Turn Over

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20. Write a note on movement of curvature in plants.
 21. Write notes on vernalization.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Explain storage and mobilization of food reserves in animal system.
23. Describe in detail the structure and function of kidney with a neat labeled diagram.
24. Draw a neat labelled diagram of synapse and explain the process of synaptic transmission?
25. Explain the mechanism of water absorption in plants with various external factors that effect absorption of water.

(2×10=20)