

2025 II 17

0930

Seat No.

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Time : 2 Hours

BIOLOGY (Vocational)

Subject Code

V	4	2	9	2
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Total No. of Questions : 23 (Printed Pages : 4)

Maximum Marks : 50

- INSTRUCTIONS :**
- (i) There are *four* sections in the question paper (A, B, C & D) consisting of **23** questions.
 - (ii) In section 'A' there are *eight* questions of which, question number **1** to **4** are multiple choice questions, and question no. **5** to **8** are to be answered in *one* or *two* sentences each.
 - (iii) Attempt *all* the questions. However, internal choice is given for question number **20** and **23**.
 - (iv) Figures to the right indicate marks allotted to each question.
 - (v) Write the number of each question clearly on the answer-book.

SECTION A

1. cause fruits like apple to elongate and improve its shape. 1
- Auxins
 - Cytokinins
 - Gibberellins
 - Ethane

2. Butterfly has type of antennae. 1
- Capitate
 - Serrate
 - Setaceous
 - Moniliform
3. In some plants adventitious roots develop chlorophyll and do photosynthesis are called 1
- stilt roots
 - prop roots
 - haustoria
 - assimilatory roots
4. is the mineral element brings about opening and closing of stomata in plants. 1
- Nitrogen
 - Phosphorus
 - Potassium
 - Calcium
5. What is Atmosphere ? 1
6. Define the term 'symbiosis'. 1

7. What is meant by pyramid of number in food chain ? 1
8. Give scientific reason : 1

Earthworm lives only in moist soil.

SECTION B

9. How is HIV transmitted from infected person to a normal patient ? 2
10. What is Binomial nomenclature ? Give *one* example. 2
11. Write the characteristics of Gymnosperms. Give *one* example of gymnosperm. 2
12. Draw the diagram of moss plant and label different parts. 2
13. What is the function of Nitrogen in plants ? 2
14. Give any *four* functions of Auxin. 2

SECTION C

15. Draw a neat labelled diagram of V.S. of flower. 3
16. With suitable examples distinguish between Predation and Scavenging. 3
17. Explain the terms 'Food chain' and 'Food web'. Draw a simple food chain in the Ecosystem. 3
18. Give the graphical representation of 'Carbon cycle'. 3

19. What is transpiration ? Explain any *two* factors affecting transpiration. 3
20. State any *three* points of difference between Dark reaction and Light reaction. 3

Or

Distinguish between cyclic and non-cyclic photophosphorylation. 3

SECTION D

21. State the distinguishing characters of order 'Coleoptera'. 4
22. Describe in detail phylum 'Protozoa'. 4
23. With suitable examples explain different kinds of tap root modifications. 4

Or

Give an account of special modifications of stem. 4