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Time : 2 Hours**BIOLOGY (Vocational)****Subject Code**

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Total No. of Questions : 5**(Printed Pages : 3)****Maximum Marks : 50**

INSTRUCTIONS : (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Solve new question on fresh page.

(iv) Draw diagrams wherever specified.

1. (A) Name an anticoagulant present in the saliva of leeches. 1
- (B) With suitable examples distinguish between first order consumers and second order consumers. 2
- (C) A forest having casuarina, eucalyptus, cashew and neem trees will survive better than forest having only casuarina trees. Justify the statement. 2
- (D) Draw a neat labelled diagram of V.S. of flower. 2
- (E) Explain how is carbon exchanged between living organisms and non-living world. 3

2. (A) Write any *two* possibilities of direct contact of body fluid and transmission of HIV. 1
- (B) State any *four* characteristics of dicotyledons. 2
- (C) Draw a neatly labelled diagram of a monocot plant. 2
- (D) Name and explain the type of association between rhizobium bacterium and leguminous plant. 2
- (E) How does abscisic acid prevent water loss in plants ? 3
3. (A) Define the term 'classification'. 1
- (B) Arrange the following taxonomic hierarchy : 1
- Genus, Class, Order, Kingdom, Family, Phylum, Species.
- (C) Explain the function of nitrogen in plants. 3
- (D) Describe in detail characteristics of phylum Mollusca. 5
- Or*
- Describe in detail characteristics of phylum Arthropoda. 5
4. (A) Tiger captures and feeds on deer. Name the type of association. 1
- (B) Define 'scavenging'. 1
- (C) Give a graphic representation of cyclic photophosphorylation. 3
- (D) State the distinguishing characters of order Coleoptera. 5

Or

- State the distinguishing characters of order Lepidoptera. 5
5. (A) What is the role of nitrobacter bacteria in nitrogen cycle ? 1
- (B) Draw a neat labelled diagram of section of pollen grain. 1
- (C) Give any *three* functions of 'auxin'. 3
- (D) Give an account of modification of leaves. 5