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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**

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*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 food relationship between two organisms in which both species are benefited. 1

(B) Arrange the following organisms according to sequence to food chain. 1

Snake, Grasshoper, Eagle, Frog, Grass

(C) Define the term "Biotic Community" and explain : 3

(i) Commensalism

(ii) Predation.

(D) Give an account on modification of stem. 5

*Or*

(D) Give an account on modification of leaves. 5

2. (A) Ripening of tomato was carried out by agriculturist for research work.  
Which hormone is responsible for ripening of tomato. 1
- (B) Give any *two* functions of Gibbnerline. 2
- (C) What is Nitrification ? State the role of nitrosomonas in nitrogen cycle. 2
- (D) Show graphical representation of oxygen cycle. 2
- (E) Draw neat labelled diagram of V.S. of flower showing floral organs. 3
3. (A) Mr. Ajay Singh was a horticulture student. He attended one blood donation camp. Before blood transfusion he was tested for HIV.  
Why ?
- (B) Fish can easily move up and down or turn left and right in water.  
Why ? 1
- (C) Give main features of cyclic photo phosphorylation. 3
- (D) Give distinguishing features of phylum Arthropoda. 5
- Or*
- (D) Give distinguishing features of phylum Protozoa. 5
4. (A) 100 gms of sugar is dissolved in pure water. What will be the effect on water potential. 1
- (B) Draw a neat labelled diagram of sunflower plant. 2

- (C) State *four* characteristics of Angiosperm. 2
- (D) How does Abscisic acid prevent water loss in plants. 2
- (E) Write the criteria for essentiality of nutrient element. 3
5. (A) How do herbarium serve as taxonomical aid ? 1
- (B) Define the term "Systematics". 1
- (C) How does water and humidity affect the living organism in Ecosystem ? 3
- (D) Give detailed account of order coleoptera. 5
- Or*
- (D) Give detailed account of order Hemiptera. 5