



2018 III 08

1000

Seat No. :

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Time : 2 Hours

**BIOLOGY (Vocational)  
(New Pattern)**

**Subject Code**

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**Total No. of Questions : 5**

**(Printed Pages : 2)**

**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) Define the term adaptation. [1]  
B) Live leeches were used to prevent clotting of blood in post operation cases. Why ? [1]  
C) A fruit seller wants to ripen the banana bunches. Name the growth regulator he can use. [1]  
D) How do auxin promote plant growth and development ? [2]  
E) Give an account of various leaf modifications. [5]  
OR  
E) Describe the various tap root modifications with one example each. [5]
2. A) A small palm like tree with cones is seen growing in school premise. Identify the species. [1]  
B) Write two points of differences between gymnosperms and angiosperms. [1]  
C) Explain how light and wind affect the rate of transpiration. [3]  
D) State the distinguishing features of order 'Lepidoptera'. [5]  
OR  
D) State the distinguishing features of order 'Coleoptera'. [5]



3. A) What is 'geitonogamy' ? [1]
- B) The scientific name of mango is Mangifera indica. What does the first word Mangifera and second word indica denote ? [1]
- C) How do zoological parks help in preserving animals facing threat of extinction ? [1]
- D) Draw a neat diagram of "vertical section of epigynous" flower. [2]
- E) Describe the distinguishing features of molluscs. [5]
- OR
- E) Describe the distinguishing features of class 'insecta'. [5]
4. A) Explain the term 'scavenging'. [1]
- B) Construct the terrestrial food chain using any four organisms given below. [1]
- Algae, Paddy Plant, Kingfisher, Snake, Falcon, Rat.
- C) On a newly exposed sea floor, only few simple and very hardy organisms are surviving, what is it called as ? [1]
- D) Draw a neat diagram of 'moss plant'. [2]
- E) Why is it advisable to plant different plant species while reforestation of a area ? [2]
- F) Explain the role of minerals and humidity in ecosystem. [3]
5. A) Name the bacteria that reduce nitrate to molecular nitrogen. [1]
- B) Draw a neat diagram of 'chloroplast'. [1]
- C) Write the deficiency symptoms of zinc. [1]
- D) Nepenthis plant growing in nutrient deficient soil without showing any deficiency symptom. Why ? [2]
- E) Distinguish between cyclic photophosphorylation and non cyclic photophosphorylation. [2]
- F) Explain how carbon is exchanged between living organisms and non living world. [3]