TDC Even Semester Exam., 2019

BOTANY

(Pass)

(4th Semester)

Course No. : BOTP–401

(Structure, Development and Reproduction in Flowering Plants)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. Write a note on the diversity of plant forms in annuals. Give two examples of annual plants. Write about convergence of evolution of tree habit. 3+1+3=7

2. Write short notes on the following : 3½+3½=7

(a) Trees—the largest and longest living organisms

(b) Difference between monocotyledons and dicotyledons.

UNIT—II

3. What is primary growth in plants? Give an account of vascularization of primary shoot in monocotyledons and dicotyledons. 2+5=7

4. Write short notes on the following : 3½+3½=7

(a) Role of woody skeleton

(b) Structure and function of secondary xylem

UNIT—III

5. Write short notes on the following : 3½+3½=7

(a) Abscission

(b) Theories on root apical meristem

6. What is quiescent centre? Describe briefly about the interaction of roots with microbes. 2+5=7

UNIT—IV

7. With necessary diagrams, describe the development of male gametophyte in angiosperms. 7

8. Write short notes on the following : 3½+3½=7

(a) Fruit development and maturation

(b) Contrivances of cross-pollination

UNIT—V

9. Write short notes on the following : 3½+3½=7

(a) Suspended animation

(b) Adaptive features of seeds

10. What is vegetative reproduction? Describe different methods of vegetative propagation in higher plants. 1+6=7

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