

2020/TDC/ODD/SEM/BOTP-301/301

(2)

TDC Odd Semester Exam., 2020
held in July, 2021

BOTANY

(Pass)

(3rd Semester)

Course No. : BOTP-301

(Diversity of Seed Plants and their Systematics)

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. (a) Write the distinguishing features of angiosperms. 3
- (b) Write the differences between monocots and dicots. 4
2. (a) Briefly explain the most important theory of origin of angiosperms. 3

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(Turn Over)

- (b) Write the characteristic features of early angiosperms. Name two families of primitive angiosperms. 3+1=4

UNIT—II

3. (a) Write the distinguishing features of cycadofilicales. 2
- (b) Write a brief note on the distribution of gymnosperms in India. 5
4. (a) What are fossils? Name the extinct classes of gymnosperms with one example of each class. 1+2+2=5
- (b) Write a note on microsporophyll of *Cycas*. 2

UNIT—III

5. (a) Write the principles of ICBN/ICN. 3
- (b) Give an illustrated account of the phytochemicals used in solving taxonomic problems. 4
6. (a) Write a note on binomial nomenclature. 2
- (b) Write a brief history of angiosperm taxonomy. 5

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(Continued)

UNIT—IV

7. (a) What are the three important systems of angiosperm classification? 2
- (b) Give a general outline of the Bentham and Hooker system of classification. 5
8. (a) Give a general outline of the Engler and Prantl system of classification. 5
- (b) Write the merits and demerits of Engler and Prantl system of classification. 2

UNIT—V

9. (a) Write the identifying features of the family Brassicaceae. 3
- (b) What are the alternative names of the families Brassicaceae, Lamiaceae, Asteraceae and Poaceae? Name one plant of each of the families. 2+2=4
10. (a) Name three economically important plants of the family Euphorbiaceae. 3
- (b) Write the advanced characters of the family Asteraceae/Orchidaceae. 4

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