

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

BOTANY

( Honours )

( 5th Semester )

Course No. : BOTH-501

( **Biology and Systematics of Angiosperms** )

*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) What is taxonomy? What are the aims and objectives of plant taxonomy? Write the striking point of difference between taxonomy and systematics. 1+2+2=5
- (b) Write a brief note on phylogeny. 2

2. (a) Define nomenclature. Write the importance of binomial nomenclature. Mention the names of different taxa with their suffix ending along with examples. 1+2+2=5
- (b) Write the basic components of plant systematics. 2

UNIT—II

3. (a) What is flora? How does flora differ from monograph? Write the names of floras published by J. D. Hooker and U. N. Kanjilal. 1+2+2=5
- (b) Write a brief note on taxonomic journals. 2
4. (a) What is a manual? Give example of a manual. Define icon with example. 1+1+1=3
- (b) Write a note on value of computer and data bases in the study of plant taxonomy. 4

UNIT—III

5. (a) What is binomial? Write four important rules of binomial nomenclature. 1+2=3

( 3 )

- (b) Write a brief note on names of hybrids and cultivars. What is author citation? 2+2=4
6. (a) Write a brief note on principle of priority. 3½
- (b) Give an account on various nomenclatures used in taxonomy. 3½

UNIT—IV

7. (a) Write an account on origin of angiosperms with reference to Gnetalean theory. What do you mean by herbaceous origin of angiosperm? 2+2=4
- (b) Give a brief account on characteristic features of primitive angiosperms. 3
8. (a) Explain how the study of coevolution of angiosperms and animals helps in understanding the evolutionary trends in angiosperms. 5
- (b) Write a brief note on Caytoniales theory of origin of angiosperms. 2

UNIT—V

9. (a) Write a note on importance of anatomical characters in the study of plant taxonomy. 5

( 4 )

- (b) Give a brief account on numerical taxonomy. 2
10. (a) Mention the importance of cytotaxonomy and chemotaxonomy in helping the study of angiosperms. 5
- (b) Write the significance of bioinformatics in the study of plant taxonomy. 2

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