

PG CBCS
M.Sc. Semester-II Examination, 2022
BOTANY
PAPER: BOT 201

(ANGIOSPERM TAXONOMY AND BIOSYSTEMATICS)

Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

BOT 201.1: ANGIOSPERM TAXONOMY

Marks: 20

GROUP-A

1. Answer any one question of the following: 8×1=8

a) Write briefly about the utilities of herbarium. Write down the demerits of digital herbarium. Name two important herbaria one from India and other from abroad with their respective acronyms. 4+2+2

b) Schematically write down the classification of Takhtajan. Characterize the subclass Liliidae. 4+4

GROUP-B

2. Answer any two questions of the following: 4×2=8

a) Differentiate between flora and vegetation.

b) Write short notes on APG system of classification.

c) Write the principles of ICN.

d) Differentiate monophyly, paraphyly and holophyly.

GROUP-C

3. Answer any two questions of the following: 2×2=4

a) What is eudicot?

b) Mention two primitive features of Magnoliidae

c) What is nomina conservation?

d) Define homograph. Give an example.

(P.T.O.)

(2)

BOT 201.2: BIOSYSTEMATICS

Marks: 20

GROUP-A

1. Answer any one question of the following:

1×8=8

- a) Define ethnobotany. Discuss about different branches of ethnobotany, Write down the utility of ethnomedicine in human welfare.
- b) What does it mean by cytology? Write down the role of cytology in solving taxonomic debates.

GROUP-B

2. Answer any two questions of the following:

2×4=8

- a) Write the importance of biodiversity.
- b) Discuss micro- morphological characters of taxonomy.
- c) Write down the principles of numerical taxonomy.
- d) Write about the categories of biosystematics.

GROUP-C

3. Answer any two questions of the following:

2×2=4

- a) Define sementides.
- b) What is OEUs?
- c) What are attributes?
- d) Write principal activities of IUCN
