

PG (NEW) CBCS
M.Sc. Semester-III Examination, 2019
BOTANY
PAPER: C-BOT 304
(ELECTIVE II)
PLANTS AND SOCIETY-II (CBCS)



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

UNIT I:

PLANT AND ENVIRONMENT

1. Answer any two questions of the following: 2×2=4
 - a) Define ecology and ecosystem.
 - b) What is food web? Mention its significance.
 - c) Define invasive species.
 - d) What is ecological efficiency?

2. Write short note on any two of the following 4×2=8
 - a) Components of ecosystem.
 - b) Ecological pyramids.
 - c) Levels of Biodiversity.
 - d) Biomonitoring.

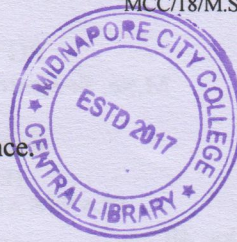
3. Answer any one question of the following: 8×1=8
 - a) What are mangroves? Briefly discuss the functioning of a mangrove ecosystem. 2+6
 - b) What is ex-situ conservation? Write the advantages and disadvantages of this type of conservation. 2+6

UNIT II:

BIOTECHNOLOGY AND HUMAN WELFARE

4. Answer any two questions of the following: 2×2=4
 - a) What do you mean by oriental fermented food? Give example.
 - b) What is an explant? (P.T.O)

(2)



- c) What is Bt cotton? Mention its significance.
- d) Give two examples of petrocrops.

5. Answer any two questions of the following:

4×2=8

- a) Schematically represent the stepwise production of beer.
- b) Write a short note on different plant tissue culture medium.
- c) Write down the importance and future of GM crops.
- d) Write a short note in biodiesel.

6. Answer any one question of the following:

8×1=8

- a) Why fermented foods are considered healthier than non-fermented ones?
Elaborate stepwise production process of SUFU. 2+6
- b) Define micropropagation. Discuss with suitable diagram the process of micropropagation. What are petroplants? 2+4+2
