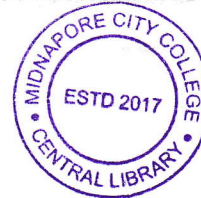


**PG CBCS**  
**M.Sc. Semester-III Examination, 2022**  
**BOTANY**  
PAPER: C-BOT 304  
(PLANT & SOCIETY-II)



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.

**UNIT: C-BOT 304.1: PLANT & ENVIRONMENT**

Marks: 20

**GROUP-A**

**1. Answer any TWO questions of the following:** **2×2=4**

- a) Define Phytoremediation
- b) What is sustainable development in ecology?
- c) Write the functions of aquatic ecosystem
- d) Mention two adaptations of mangrove plants. Give an example.

**GROUP-B**

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

- a) How genetic engineering enhanced the natural Phytoremediation process?
- b) Write short notes on Phytotransformation.
- c) How Phytostimulation process helps microorganism to digest and break down the toxic substances?
- d) Distinguish between Phytovolatilization and Rhizofiltration.

**GROUP-C**

**3. Answer any ONE question of the following:** **8×1=8**

- a) What is social ecology? How social ecology helps to maintain biodiversity. 2+6
- b) What is meant by biodiversity conservation? What are the different methods of conserving biodiversity? 2+6

(P.T.O.)

**UNIT C BOT 304.2**  
**PLANT & SOCIETY**

Marks: 20

**GROUP-A**

1. Answer any **TWO** questions of the following: **2×2=4**

- a) Why fermented foods are more beneficial than other foods?
- b) What are GM crops?
- c) Define totipotency
- d) What is red wine?

**GROUP-B**

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

- a) Write down different steps for cheese production and mention the microorganism used in this process.
- b) Write short notes on biodiesel.
- c) Define petro crops? Give two examples of two petrocrops.
- d) Discuss process for sausage preparation.

**GROUP-C**

3. Answer any **ONE** question of the following: **8×1=8**

- a) Write different steps of wine production. What is sweet dessert wine? **6+2**
- b) Write down different steps of micro-propagation. Mention their advantages and disadvantages. **4+4**

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