

Third Semester Examination-2018

M.Sc. BOTANY

Paper Code: BOT-304 (CBCS)

ELECTIVE II

PLANTS AND SOCIETY (Part - II)



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 Pneumatophore and Viviparous germination.
- b) What are the differences between food chain and food web?
- c) What are mangroves?
- d) What are ecological pyramids?

2. Write the short notes (any two):

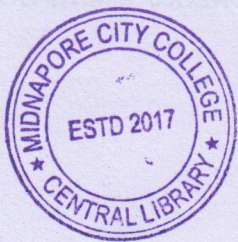
4×2=8

- a) Phytoremediation
- b) Energy Flow.
- c) Social Forestry.
- d) Types of wetlands.

3. Answer any one question of the following:

8×1=8

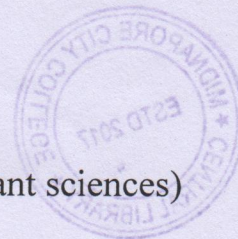
- a) Define Biodiversity. What are ex-site and in-site conservation? Explain the different levels of Biodiversity. 2+2+4=8
- b) Define ecosystem. Who first proposed the term? Briefly describe a typical aquatic ecosystem. 2+1+5=8



(Turn Over)

Unit – II

(Contributions of modern techniques in plant sciences)

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

- a) What is transgenesis?
- b) Define biodiesel.
- c) What do you mean by dry wine?
- d) Give example of two petro crops.

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

- a) Write down Step rise production of wine.
- b) Discuss application of Agrobacterium tumefaciens on GM crops.
- c) Write down application of antisense RNA technology in agriculture.
- d) How is bio diesel produced from Cellulosic waste?

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

- a) i) Define fermented food. State the utility of fermented food. What is sherry? **1 + 2 + 1 = 4**
 ii) Elaborate stepwise production of cheese.
- b) i) Write down the utility of GM crops. **3 + 3 + 2 = 8**
 ii) Briefly describe direct gene transfer methods of plant.
- iii) Mention different types of sausages available in market.
