

BOTANY (P.G.)**[CBCS]****M.Sc. Third Semester End Examination-2024****(Regular & Supplementary Paper)****PAPER-BOT-303****[ECOLOGY AND BIODIVERSITY]****Full Marks: 40****Time: 02 Hrs***The figures in the right hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.***Group - A****1. Answer any FIVE questions of the following: 2x5=10**

- a. Mention the principles of Deep Ecology.
- b. Write the functions of ecosystem.
- c. What are the effects of Acid deposition on lakes and rivers?
- d. Write down the qualitative and quantitative characteristics of Plant community.
- e. What is Base Cations decline?
- f. What is Dobson unit?
- g. What is carrying capacity?
- h. Define Phytosociology.

Group - B

2. Answer any FOUR questions of the following: **5x4=20**

Write short notes on:

- a. Chernobyl Disaster.
- b. Ramsar convention
- c. Rio earth summit
- d. Bhopal tragedy
- e. EL Nino

Group - C

f. Answer any ONE question of the following: **10x1=10**

- a. What do you mean by invasive species? Write about the characteristic features of invasive species. When do plants get invasive? How can invasives thrive in alien environments? How many invasives have been recorded in India?

1+2+2+3+2=10

- b. Describe about two simple models of Population growth. What is sustainable development? What is population regulation? Write some common examples of density dependent limiting factors.

5+2+1+2=10
