

Botany (P.G.)

[CBCS]

M.Sc. Fourth Semester End Examination-2024

[Regular & Supplementary Paper]

PAPER- BOT 402

Ecology [Special Paper - I]

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 four question from the followings: 4x2=8

- a) Name two Ramsar sites outside India. What do you mean by frequency and abundance?
- b) What is phytosociological analysis?
- c) What is Minamata tragedy?
- d) What is polyspecific population? Give example.
- e) What are the causes of cryptovivipary?
- f) Elaborate how an oil spill can affect an aquatic food web.
- g) Mention two unique properties of ecotone.
- h) What are aerosols?

(2)

Group-B

2. Answer any four questions from the following: **4x4=16**

- a) What is meant by ODS? Mention different causes of global warming?
- b) Distinguish between El Nino and La Nina phenomena
- c) Write a short note on the mangrove ecosystem.
- d) Give an account of environmental stress.
- e) What are the four major functional features of ecosystem?
- f) What was the outcome of Stockholm Conference?

Group -C

3. Answer any two questions of the following: **2x8 = 16**

- a) Discuss the causative factors and effects of the "London Smog". What measures were taken after the fateful event?
[(3+2)+3]
 - b) What are the three most likely survivorship curves for a population? What are the limiting factors for survivorship?
[(3+1)+4]
 - c) What is ozone depletion? Write the effects of ozone depletion to the biological components. **2+6**
 - d) What are threats which the invasive species impose on that specific locality? Explain with suitable example. Name two herbaceous invasive species of India. **[(4+2)+2]**
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