



**24324**

**III Semester B.Sc. Degree Examination, November/December 2016**  
**BOTANY – III**  
**Paper – 3.4 : Ecology and Environmental Biology**  
**(New Syllabus)**

Time : 3 Hours

Max. Marks : 80

**Instructions :** 1) Answer **all** the questions.  
2) Diagram will enhance the **value** of answers.

**SECTION – A**

I. Answer the following questions.

**(1×15=15)**

- 1) Define food chain.
- 2) What is afforestation ?
- 3) What is soil erosion ?
- 4) What are epiphytes ? Give an example.
- 5) What is smog ?
- 6) What are non biodegradable pollutants ? Give an example.
- 7) What is xerosere ?
- 8) What is water holding capacity ?
- 9) What is pedology ?
- 10) What is biome ?
- 11) What is ecosystem ?
- 12) Define food web.
- 13) What is autecology ?
- 14) What is plant community ?
- 15) Expand the term WWF.

**SECTION – B**

II. Answer **any five** of the following.

**(5×5=25)**

- 16) What are halophytes ? Describe the morphological and anatomical adaptation of halophytes.
- 17) Mention the controlling measures of soil erosion.

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- 18) Explain pond ecosystem with a neat labelled diagram.
- 19) What are renewable and non-renewable energy source ? Explain their role in maintenance of better environment.
- 20) Explain the Biotic factors.
- 21) What is quadrat ? Explain the types of quadrants.
- 22) Explain the phosphorus cycle with schematic diagram.

SECTION – C

III. Answer **any four** of the following.

(4×10=40)

- 23) Explain the phytogeographical region of India.
  - 24) What is succession ? Describe various stages of Hydrorch succession.
  - 25) What is water pollution ? Mention the pollutants, sources, its causes and suggest measures to prevent water pollution.
  - 26) Write a short note on :
    - a) Carbon cycle
    - b) Renewable energy recourses.
  - 27) What are ecological pyramids ? Explain all the type.
  - 28) Explain the Biotic and abiotic factors.
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