

BSC (CBCS) Botany- III Year Semester-V Paper VI- Question Ban Subject

Title- Ecology and Biodiversity

Faculty Name- . Gouthami

UNIT-I : ECOLOGY

Essay Questions:

- What is an Ecosystem? Describe the different components of an Ecosystem?
- What are the Ecological pyramids? Describe the pyramids of numbers, biomass and energy?
- Give an account of energy flow in an ecosystem? How it confirms the law of thermodynamics?

What do you understand by bio- geo chemical cycle? Give an account of nitrogen cycle.

- Describe the ecosystem of a pond?
- What is environment? Write in detail about the various spheres of environment.
- Write in detail about atmosphere and its layers.
- What are heliophytes and sciophytes? Compare and contrast their features.
- What are hydrophytes? Describe their important morphological and anatomical characters?
- Briefly discuss the ecological adaptation of xerophytes?
- Describe the effect of biotic factors on vegetation?
- Describe the role of light and temperature as ecological factors?
- Write in detail an essay on Edaphic factors?

Short Answer Questions:

- Food chain and food web.
- Carbon cycle.
- Halophytes.
- Process of soil formation.
- What are residual and transporter soils.
- Soil erosion and conservation.
- Soil profile.

UNIT-II : ECOLOGY

Essay Questions:

- What is plant succession? Describe xerosere.
- Describe the hydrosere type of succession?
- Define primary productivity. Discuss different factors which influence primary productivity of an ecosystem?
- Describe different characteristics shown by plant communities?

Short Answer Questions:

- Natality and mortality.
- Population growth and growth curves.
- Age pyramids.
- Biological spectrum.
- Rauniaer 's life- forms.
- Quadrats .
- P/R ratio.
- Secondary productivity.

UNIT-III: BIODIVERSITY AND CONSERVATION

Essay Questions:

- Enumerate the levels and types of biodiversity.
- Explain the value of biodiversity with examples.
- Explain the effects of biodiversity loss and the means to conserve it.
- Explain the different methods of biodiversity conservation.
- Define biodiversity hotspot and explain the hotspots of India.
- Why India is considered as megadiversity nation. Explain with reasons.

Short Answer Questions:

- Earth summit
- Ex-situ conservation
- In-situ conservation
- WWF
- NBPGR
- IUCN
- Endemic species of India.

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