

Mid-West University
Examinations Management Office
Surkhet, Nepal
End Semester Examinations -2078

Bachelor level/ B.Sc /3rd Semester

Time: 3 hrs

Subject : Ecology, Evolution and paleobotany (BOT 331)

Full Marks : 100

Pass Marks : 50

Candidates are required to give their answers as far as practicable. The figures in the margin indicate full marks.

Group - A

1. **Answer in very short on any ten questions.** [10×1=10]
- Define ecotone.
 - What do you mean by BOD?
 - What do you mean by species diversity?
 - Why the pyramid of biomass of pond ecosystem is inverted?
 - What does it mean by organic evolutions?
 - What do you mean by keystone species?
 - Define the term exploitation.
 - Write any two mitigation measures of water pollution.
 - List out the scope of ecology.
 - Write any two medical plant of tropical zone.
 - Define denitrification.
 - What do you mean by sere?

Group - B

Answer any eight questions in brief. [8×5= 40]

- Elaborate the sulphur cycle with necessary diagram.
- Mention the biotic factors that affect on the community ecosystem.
- Explain the types of fossils and process of fossil formation.
- Discuss the general process of succession.
- Describe the structural components of pond ecosystem with examples.
- What do you mean by plant community? Discuss the characteristics of plant community.
- Why study of ecology is important for human being? Justify.
- Discuss the different methods of studying vegetation.
- What is productivity? Give a brief description on topographic factors of ecosystem.
- Discuss different theories proposed for the evolution of life in the earth.

Group - C

Attempt any five questions. [5×10= 50]

- Discuss the structural and functional aspects of grassland ecosystem.
- Write in details on phytogeography of Nepal.

14. Explain the biotic factors of ecosystem. Also emphasized by suitable example.
15. Discuss different stages of hydrosere and illustrate your answer with suitable example.
16. What is soil pollution? How the growing solid waste management problem can be solved in Birendranagar municipality, Give your constructive suggestions with appropriate methods.
17. Write notes on;
 - a. Geological era
 - b. Food web in forest ecosystem

THE END