

Mid-West University  
**Examinations Management Office**  
Final Examinations-2082

Bachelor level/Science/VII Semester

Time: 3 hrs.

Subject: Ecology and Environmental Biology (ZOO473)

Full Marks: 60

Pass Marks: 30

*Candidates are required to give answer in their own words as far as practicable. The figures in the margin indicate full marks.*

**Group A**

**1. Very short questions (Attempt ANY SEVEN)**

**[7x1=7]**

- a) Define primary productivity.
- b) Define the third trophic levels of the ecosystem.
- c) What exactly do you mean by carrying capacity?
- d) Identify two examples of remote sensing.
- e) Define 'Environmental auditing' in EIA.
- f) List any two GIS applications.
- g) Identify two benefits of carbon trading. Provide two methods.
- h) Give two activities to mitigate global warming.
- i) Mention any two climate forcing agents.

**Group B**

**Attempt short questions (ANY SEVEN)**

**[7x3=21]**

2. Energy flow in an ecosystem is unidirectional. Explain using the appropriate diagrams.
3. Explain the various forms of population dispersion or distribution.
4. Give an explanation on significance of biological indicators.
5. Write about working mechanism of GPS.
6. Write brief comments about the Kyoto Protocol.
7. Why energy crops are important to us? Justify.
8. What strategies can you use to reduce pollution at national parks?
9. Discuss how climate-forcing agents contribute to climate change.

**Group C**

**Attempt long questions (ANY FOUR)**

**[4x8=32]**

10. Define the term ecological energetics. Demonstrate an example of ecological energetics.
11. Why is environmental resistance important in nature? Explain the types of population growth in community.
12. Define Environmental Assessment. What are the key aspects of EIA? Explain.
13. Explain the carbon trading. How may a country such as Nepal gain from it? Explain.
14. Describe the impacts of climate change and how the impacts can be minimized? Discuss.

**●THE END**