

KATHMANDU UNIVERSITY
End Semester Examination
July/August 2024

Level : B.Sc.
Year : II
Time : 2 hrs. 30mins.

Course : ENV5 201
Semester : I
F. M. : 55

15 JUL 2024

SECTION "C"

[3Q. × 7 = 21 marks]

Attempt *ANY THREE* questions.

1. What are the benefits and problems of pesticide use? What could be the alternatives to pesticides? Explain.
2. What is adaptation? Explain different types of ecological adaptation by flora and fauna.
3. Define air pollution. What are different types of air pollutants in an ecosystem?
4. Explain how human activities contribute to aquatic ecosystem imbalance?

SECTION "C"

[34 marks]

5. Write short notes on: [4 Q. × 3 = 12]
 - a. Natural causes of climate change
 - b. Atmospheric inversions
 - c. Range shift
 - d. Dissolved oxygen
6. Differentiate between (*ANY FOUR*): [4 Q. × 2 = 8]
 - a. Structural adaptation and behavior adaptation
 - b. R and K reproductive strategies
 - c. Avoiders and tolerators
 - d. Windward and leeward side
 - e. Viable and non-viable particulates
7. Give reasons (*ANY FOUR*): [4 Q. × 2 = 8]
 - a. Protective coloration allows animals to blend into its environment
 - b. Volcano leads to change in temperature
 - c. Leaves of desert plants are reduced to spines.
 - d. Hibernation of animals
 - e. Rainforests have high biodiversity.
8. Discuss on different type of population growth model? Explain. [6]

OR

List the following

- a. Why do you need to calculate the size and number of quadrats?
- b. What is basal area of a tree species?
- c. Write two applications of quadrat in ecological studies.

[3 Q. × 2 = 6]

