

B.Sc. Part- III
Paper-II Ecology, Environmental Biology and Evolution

A. Short answer type questions

1. Define limiting factors.
2. Differentiate between Mutualism and Symbiosis.
3. What is the importance of Red Data Book?
4. Name four endangered species of Rajasthan.
5. Define limnology.
6. What is nuclear fallout?
7. Name Greenhouse gases.
8. What is the concept of Species?
9. What is Tundra and Taiga?
10. Define mimicry with suitable examples.
11. Name major soil pollutants.
12. What is the difference between interspecific and intraspecific relationship.
13. Differentiate between lentic and lotic habitat.
14. Write Hardy Weinberg law.
15. What do you mean about Bio magnification of pollutants?

B. Long answer type questions

1. Describe different models of energy flow in ecosystem.
2. Explain stratification in forest.
3. Write an essay on non-conventional sources of energy.
4. Define biogeochemical cycle. Write in detail about Nitrogen cycle along with the role of microbes.
5. Differentiate between National Park and Sanctuary. Write briefly about National parks of Rajasthan.
6. Describe productivity of any ecosystem in detail.
7. Write an essay on Evolution of man.
8. Write short notes on-
 - a) Zoogeographical realms
 - b) Continental drifts
9. Explain Darwinism and Neo Darwinism in detail.
10. Write short notes on-
 - a) Predation
 - b) Shelford's law of tolerance