

Reg. No

Name

18P207

M Sc DEGREE END SEMESTER EXAMINATION - APRIL 2018
SEMESTER 2 : ZOOLOGY
COURSE : 16P2ZOOT05 ; ECOLOGY: PRINCIPLES AND PRACTICES
(Common for Regular - 2017 & Supplementary - 2016 admission)

Time : Three Hours

Max. Marks: 75

Section A
Answer any 8 (2 marks each)

1. What is resource partitioning?
2. Comment on environmental factors
3. What are biotic components of an ecosystem? Cite examples.
4. What is primary productivity?
5. Comment on trophic levels
6. Comment on aggregation
7. Differentiate between physiological natality and ecological natality
8. Differentiate between crude and specific population density with suitable examples
9. Differentiate between autogenic succession and allogenic succession
10. What is meant by afforestation?
11. Briefly explain Energy Audit
12. Write notes on soil formation

(2 x 8 = 16)

Section B
Answer any 7 (5 marks each)

13. Write notes on the concept of habitats.
14. Write notes on resistance and resilience stability.
15. Comment on the concept of homeostasis
16. Comment on primary productivity and its measurements.
17. Elucidate phosphorous cycle with a flow chart.
18. Differentiate between r and k selection
19. Comment on the ecological and evolutionary effects of competition
20. Write a note on the trends expected during the course of autogenic succession of ecosystems
21. Write notes on the physical and chemical properties of soil
22. Comment on the significance of soil fertility

(5 x 7 = 35)

Section C
Answer any 2 (12 marks each)

23. Write notes on the concept of homeostasis with special reference to the cybernetic nature of an ecosystem.
24. Explain the laws of thermodynamics and energy flow in ecosystems

25. Give an account of population interactions
26. Write an essay on Causes and consequences of deforestation and Conservation of Forests
(12 x 2 = 24)