Reg. No	Name

## M. Sc DEGREE END SEMESTER EXAMINATION - MARCH 2020 SEMESTER 2 : ZOOLOGY

COURSE: 16P2ZOOT05: ECOLOGY: PRINCIPLES AND PRACTICES (For Regular - 2019 Admission & Supplementary 2018/2017/2016 Admissions)

Time: Three Hours Max. Marks: 75

## Section A Answer any 8 (2 marks each)

- 1. Comment on environmental factors
- 2. Comment on niche width and niche overlap.
- 3. What are abiotic components? How they interconnected with biotic components in an ecosystem?
- 4. How feedback mechanisms control the cybernetic nature of an ecosystem?
- 5. What are inverted ecological pyramids?
- 6. What is carrying capacity?
- 7. Comment on the factors responsible for annual population fluctuations
- 8. Comment on Gause's principle
- 9. Differentiate between autogenic succession and allogenic succession
- 10. What is a natural resource?
- 11. What is meant by afforestation?
- 12. Briefly explain Energy Audit

 $(2 \times 8 = 16)$ 

## Section B Answer any 7 (5 marks each)

- 13. Describe the Gaia hypothesis.
- 14. Comment on Host as Habitat concept
- 15. Bring out the significance of character displacement considering various animal groups.
- 16. Comment on primary productivity and its measurements.
- 17. Differentiate between GPP, NPP and NCP.
- 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 sand mining and its impacts
- 22. Write notes on the Forest Products

 $(5 \times 7 = 35)$ 

## Section C Answer any 2 (12 marks each)

- 23. Explain resource partioning qouting suitable examples.
- 24. Write notes on biogeochemical cycles.
- 25. Write an essay on the characteristics of a population.
- 26. Write an essay on the importance, threats and initiatives for the conservation of Wetlands

 $(12 \times 2 = 24)$