

Reg. No .....

Name .....

18P114

**M.Sc DEGREE END SEMESTER EXAMINATION - NOVEMBER 2018**  
**SEMESTER 1 : ENVIRONMENTAL SCIENCE**  
**COURSE : 16P1EVST01 : FUNDAMENTALS OF ENVIRONMENTAL STUDIES**  
*(For Regular - 2018 Admission & Supplementary - 2016 / 2017 Admissions)*

Time : Three Hours

Max. Marks: 75

**Section A**  
**Answer any 10 (2 marks each)**

1. State Gaia Hypothesis.
2. Give a short note on pyramid of energy.
3. What is the density independent action in population control?
4. What is ex-situ conservation?
5. Write notes on ecotone.
6. What is EIA?
7. Give a note on resource depletion.
8. Comment on the role of trickling filters in waste water treatment.
9. Explain the role of biofilter in waste management.
10. What is Rio Declaration?
11. Define "Polluter pays Principle".
12. What is PIL?

**(2 x 10 = 20)**

**Section B**  
**Answer any 5 (5 marks each)**

13. The phosphorus cycle is an imperfect cycle. Why it is called so?
14. Explain Levin's model of meta population.
15. Briefly describe the characteristics of a community.
16. List out the impacts of sand mining.
17. Discuss the natural and man made sources of radioactive pollution.
18. Discuss the management of liquid waste and sewage.
19. Describe briefly the Environmental Protection Act.
20. What is stated in the U. N. Declaration for Environment & Development, 1992 (The RIO Declaration)?

**(5 x 5 = 25)**

**Section C**

**Answer any 2 (15 marks each)**

21. Which are the three successive steps involved in the production process in an ecosystem? Explain the different methods used to measure the accumulated organic matter in an ecosystem.
22. Describe the whole processes involved in the formation of soil.
23. Explain different types of pollution, its causes and consequences.
24. Give a detailed account of the role of intergovernmental organizations in environmental protection.

**(15 x 2 = 30)**