

R15

Code No: 126ZF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, April - 2018

ENVIRONMENTAL STUDIES

(Electrical and Electronics Engineering)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- 1.a) Define ecosystem. [2]
- b) What is carrying capacity of an ecosystem? [3]
- c) List out living resources in terrestrial ecosystem. [2]
- d) Write about mining resources of Telangana. [3]
- e) What is species diversity? [2]
- f) What is a biosphere reserve? [3]
- g) What are primary pollutants? [2]
- h) List out secondary pollutants and explain production of any one of them. [3]
- i) What is ecological footprint? [2]
- j) Explain green building concept. [3]

PART - B

(50 Marks)

2. Write a detailed note on any one biogeochemical cycle of your choice. [10]
- OR
3. Explain flow of energy in an ecosystem through food chain and food web. [10]
4. Explain how overutilization is threatening water security. Outline measures for mitigating it. [10]
- OR
5. Explain how renewable energy sources will help in meeting the ever growing energy needs. [10]
6. Give a detailed account of value of biodiversity. [10]
- OR
- 7.a) Give a note on insitu conservation of biodiversity.
- b) Write a note on national biodiversity act. How does it help in conservation and benefit sharing. [5+5]
8. There is evergrowing air pollution in the cities. Explain measures for its control. [10]
- OR
9. Give an overview of e waste and its management. [10]
10. What is EIA? How does it help in sustainable development? [10]
- OR
11. Write about ecological footprint and low carbon life style. [10]