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Code No: 126ZF JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, April - 2018 **ENVIRONMENTAL STUDIES** (Electrical and Electronics Engineering) Max. Marks: 75 Time: 3 hours 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. (25 Marks [2] 1.a) Define ecosystem. [3] What is carrying capacity of an ecosystem? b) [2] List out living resources in terrestrial ecosystem. c) [3] Write about mining resources of Telangana. d) [2] What is species diversity? e) What is a biosphere reserve? [3] f) [2] What are primary pollutants? g) List out secondary pollutants and explain production of any one of them. [3] h) [2] What is ecological footprint? i) [3] Explain green building concept. <u>i)</u> PART - B (50 Marks) Write a detailed note on any one biogeochemical cycle of your choice. [10] OR Explain flow of energy in an ecosystem through food chain and food web. [10]3. Explain how overutilization is threatening water security. Outline measures for [10]mitigating it. Explain how renewable energy sources will help in meeting the ever growing energy needs. [10] [10] Give a detailed account of value of biodiversity. 6. Give a note on insitu conservation of biodiversity. 7.a) Write a note on national biodiversity act. How does it help in conservation and benefit [5+5]sharing. There is evergrowing air pollution in the cities. Explain measures for its control. 8. Give an overview of e waste and its management. [10] 9. What is EIA? How does it help in sustainable development? OR Write about ecological footprint and low carbon life style. [10] 11. ---ooOoo---