

Code No: 126AC

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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

ENVIRONMENTAL IMPACT ASSESSMENT

(Civil 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 the term Environment. [2]
- b) What is meant by baseline data? [3]
- c) Write the ambient air quality standard for Sulphur dioxide. [2]
- d) Define soil erosion. [3]
- e) What is meant by a National Park? [2]
- f) What are cumulative impacts? [3]
- g) Describe a simple checklist. [2]
- h) What are the limitations of Gaussian Plume Model in air pollution modeling? [3]
- i) What are the reasons for soil salinisation? [2]
- j) Mention the impact of acid precipitation on marble of Buildings? [3]

PART - B

(50 Marks)

2. What is meant by Environmental impact assessment? What are the different types of environmental impacts? [10]

OR

- 3.a) What is Environmental impact statement? Describe the format.
- b) Describe river water monitoring methodology. [5+5]

4. Explain EIA Methodologies. [10]

OR

5. Write the biophysical environmental factors to be considered for impoundment projects. [10]

6. Describe groundwater pollution vulnerability assessment methodology. [10]

OR

7. Define the term air pollution dispersion and describe air pollution dispersion modeling approaches. [10]

8. Write the impacts of land filling of wastes on soil, water and air quality. [10]

OR

9. Define noise pollution. Write the measures for industrial noise control. [10]

10. Describe the Socio-economic factors to be considered in EIA studies. [10]

OR

11. What are flora and fauna? Explain the ex-situ and in-situ measures of conservation of biodiversity. [10]