

R16

Code No: 138GB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, September - 2020

ENVIRONMENTAL IMPACT ASSESSMENT

(Common to ME,ECE,MIE)

Time: 2 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Explain the Leopold matrix in detail with suitable example.
- b) What are the limitations of Environment impact assessment? [7+8]
- 2.a) What are the steps involved in EIA clearance process?
- b) What is the significance of cost benefit analysis in EIA? [10+5]
- 3.a) Explain in detail the ecological monitoring and audit programme.
- b) Differentiate Direct and Indirect impact in vegetation and wildlife impact analysis. [10+5]
- 4.a) Give the formula for i) Relative dominance ii) Relative frequency and Relative density in Biological assessment?
- b) What are the guiding principles for green belt development? [9+6]
- 5.a) What are the mitigation measures adopted in restoring the soil properties?
- b) Mention different soil functions that is considered for any soil environment study. [7+8]
- 6.a) What is meant by soil liquefaction and how it caused?
- b) What are the impact occurs in land during operation phases?
- c) What is meant by Land drainage? [6+6+3]
- 7.a) How often environment audit are conducted in an organization?
- b) What are the principle areas of environmental auditing?
- c) What are the steps involved in pre audit activities? [4+6+5]
8. Explain in detail the Environment management plan for Air, Water and Land environment for thermal power plant project? [15]

---ooOoo---