

F

10000CE469122102

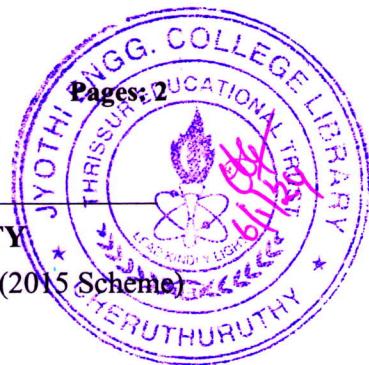
Pages: 2

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S7 (S, FE) / S7 (PT) (S, FE) Examination December 2023 (2015 Scheme)



Course Code: CE469

Course Name: ENVIRONMENTAL IMPACT ASSESSMENT

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.

Marks

- 1 a) Define EIA. Write down the sequential steps involved in the EIA process in India (10)
b) Write a short note on National Environmental Policy Act (NEPA). (5)
- 2 a) List the major sources of Sulphur Dioxide (SO₂) in the atmosphere. (5)
b) Why photochemical smog is called a secondary pollutant? Describe the circumstances under which photochemical smog is formed in the atmosphere. (5)
c) List the major impacts of Carbon Monoxide (CO) on human health. Why is it called the silent killer? (5)
- 3 a) How do modern agricultural practices lead to Eutrophication, and there by affect the health of water bodies? (10)
b) List the basic principles of good public participation in an EIA process. (5)

PART B

Answer any two full questions, each carries 15 marks.

- 4 a) How does the '3R principle' work for a sustainable solid waste management? (10)
b) List various control measures for noise pollution. (5)
- 5 a) How are the terms - 'Deforestation', 'Land degradation' and 'Biodiversity' connected while assessing the environmental impacts? Name any two biodiversity hotspots in India (10)
b) What is meant by scale of impact? Explain with suitable examples. (5)
- 6 a) Explain the chemistry of Ozone depletion in the atmosphere. Mention any one global initiative to control Ozone depletion. (10)
b) What are the various sources of E-waste? Discuss the threat to the environment due to e-wastes. (5)

PART C

Answer any two full questions, each carries 20 marks.

- 7 a) Explain Fault Tree Analysis and Event Tree Analysis. Give one example each. (10)
b) Explain the ways by which an environmental engineer can contribute to the improvement of the environment by involving in the EIA process. (10)
- 8 a) Describe Environmental Management Plan (EMP) in EIA studies. (10)
b) Distinguish between *Criteria* and *Standards* for water quality. Write a short note on the drinking water standards in Indian context. (10)
- 9 a) Explain the relevance of socio-economic impact assessment in EIA studies. (10)
b) How will you carry out the EIA of a quarry mining project? Explain the sequential steps involved. (10)
