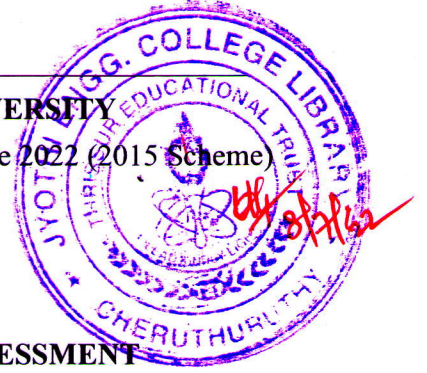


Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree Supplementary Examination June 2022 (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) Explain the need of EIA. How was the concept of EIA evolved in the world and in India? | (10) |
| | b) What are the major revisions made in 2006 Notification of EIA? | (5) |
| 2 | a) List the major sources of Carbon Monoxide (CO) in the atmosphere. | (5) |
| | b) Explain the formation of photochemical smog in the atmosphere. | (5) |
| | c) What are the impacts due to SO ₂ on plants and materials? | (5) |
| 3 | a) Explain Eutrophication as an impact of pollution. How does it affect the health of the water body? | (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.*

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|---|--|------|
| 4 | a) Explain the hierarchy for a sustainable solid waste management. Illustrate with diagrams. | (10) |
| | b) List various control measures for noise pollution | (5) |
| 5 | a) Explain the chemistry of Ozone depletion in the atmosphere. Mention any one global initiative to control Ozone depletion. | (10) |
| | b) Impacts of developmental activities can vary in scale and types. Explain with examples. | (5) |
| 6 | a) What are the various sources of E-waste? Discuss the threat to the environment due to e-wastes. | (10) |
| | b) What are the causes for the loss of biodiversity? Name any two biodiversity hotspots in India | (5) |

PART C

Answer any two full questions, each carries 20 marks.

- 7 a) Distinguish between Fault Tree Analysis and Event Tree Analysis in EIA (10)
- b) What is the relevance of socio-economic impact assessment in EIA studies? How can it be carried out? (10)
- 8 a) Describe Environmental Management Plan (EMP) in EIA studies. (10)
- b) Write a note of National Ambient Air Quality Standards (NAAQS). Give the standard values of CO, SO₂ and NO_x as per NAAQS (10)
- 9 a) An environmental engineer has a great role in EIA. Explain with examples (10)
- b) How will you carry out the EIA of a highway development project? Explain the sequential steps involved. (10)
