

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S7 (S, FE) / S7 (PT) (S,FE) Examination May/June 2024 (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

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| 1 | a) Describe the environmental clearance process in India | (9) |
| | b) What is the importance of screening and scoping in environmental impact assessment? | (6) |
| 2 | a) Identify and list the major primary and secondary air pollutants | (6) |
| | b) Several Indian cities, including the national capital are major hotspots for rising levels of nitrogen oxide. Describe the impacts associated with the release of nitrogen dioxide into the atmosphere? | (9) |
| 3 | a) Briefly explain about the point and non-point sources of water pollution with examples | (6) |
| | b) In the recent past, due to rapid progress in communications and commerce, there has been a swift increase in the urban areas along the river Ganga, As a result the river is no longer only a source of water but is also a channel, receiving and transporting urban wastes away from the towns. Today, one third of the country's urban population lives in the towns of the Ganga basin. Out of the 2,300 towns in the country, 692 are located in this basin, and of these, 100 are located along the river bank itself. Read the paragraph and discuss the impacts of various water pollutants | (9) |

PART B*Answer any two full questions, each carries 15 marks.*

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| 4 | a) What are the various sources of solid waste? | (4) |
| | b) What's an engineer's responsibility in mitigating the effects of e-waste? Elaborate your comments as an Engineer. | (5) |
| | c) Approximately, 2 million tonnes of pesticides are utilized annually worldwide. What are the concerns regarding the repeated use of pesticides? | (6) |

- 5 a) Define noise. List out the sources of noise pollution (5)
b) What are the control measures for noise pollution? As a student what are your suggestions to control noise? (10)
- 6 a) *“Climate change is the greatest threat to our existence in our short history on this planet. Nobody’s going to buy their way out of its effects.”* (5)
Discuss the impacts of climate change and comment on this quote.
b) Write a note on ozone layer depletion. (5)
c) Illustrate the impacts of development on vegetation and wildlife (5)

PART C

Answer any two full questions, each carries 20 marks.

- 7 a) Explain the checklist method of impact assessment. (10)
b) How the impact analysis can be done using overlay method? (10)
- 8 a) Demonstrate a case study of environmental impact assessment of hydroelectric project. (10)
b) What is the significance of water quality and air quality standards in India? (10)
- 9 a) Mention the role of an environmental engineering in context with EIA? (10)
b) Discuss about the socio economic impacts associated with coal refinery project. (10)
