

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SEVENTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

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) Describe the various steps in EIA process with the help of a flow chart. | (12) |
| | b) Explain the need for conducting Environmental Impact Assessment. | (3) |
| 2 | a) Differentiate point and nonpoint sources of water pollution with examples? | (10) |
| | b) Describe the impacts of any two water pollutants. | (5) |
| 3 | Explain in detail various control measures for three major air pollutants? | (15) |

PART B

Answer any two full questions, each carries 15 marks.

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|---|---|------|
| 4 | a) What is e-waste? Discuss the effects of E-waste on environment. | (6) |
| | b) Explain in detail about noise pollution, its sources and effects | (9) |
| 5 | a) List and explain any three sources of solid waste. | (10) |
| | b) Discuss in detail about the ozone layer depletion. | (5) |
| 6 | a) What are the impacts of deforestation? | (8) |
| | b) What are the causes and effects of land degradation? | (7) |

PART C

Answer any two full questions, each carries 20 marks.

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|---|--|------|
| 7 | a) Explain in detail event tree analysis with an example | (10) |
| | b) Explain matrix methods | (10) |
| 8 | a) Discuss about the socio economic impacts associated with an airport project | (10) |
| | b) Explain the advantages and disadvantages of (a) matrices and (b) overlays | (10) |
| 9 | a) Explain any case study of EIA in detail | (10) |
| | b) Explain standards for noise quality in detail | (10) |

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

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) Briefly explain (a) Evolution of EIA in India | (4) |
| | b) History and Development of EIA elements in different countries | (6) |
| | c) Explain present scenario in India about EIA study? | (5) |
| 2 | a) Discuss the benefits of EIA. | (5) |
| | b) Give details of environmental clearance process in India with time involved in each step | (10) |
| 3 | a) Explain point and nonpoint sources of water pollution | (5) |
| | b) Explain any five impacts of water pollution | (5) |
| | c) Differentiate between BOD and COD | (5) |

PART B

Answer any two full questions, each carries 15 marks.

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|---|---|------|
| 4 | a) List and Explain any three sources of solid waste. | (10) |
| | b) Propose control measures for noise pollution. | (5) |
| 5 | a) Write short notes on (i) acid rain (ii) ozone layer depletion (iii) global warming | (15) |
| 6 | a) How development impacts on biodiversity? | (12) |
| | b) What are the suggestions that can be given to the construction industry to reduce the impacts on biodiversity? | (3) |

PART C

Answer any two full questions, each carries 20 marks.

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|---|--|------|
| 7 | a) Discuss in detail the impact assessment methodologies | (20) |
| 8 | a) Explain standards for air quality in detail | (10) |
| | b) Explain environmental management plan in detail | (10) |
| 9 | a) Explain standards for noise quality in detail | (10) |
| | b) Explain any case study of EIA in detail | (10) |

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019

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) | What are the key elements in EIA as per Government of India notification? | (10) |
| | b) | Discuss the need and importance of EIA | (5) |
| 2 | a) | Identify and list the major primary and secondary air pollutants | (5) |
| | b) | Discuss the phenomena of photochemical smog. | (5) |
| | c) | What are the human health effects of carbon monoxide as an air pollutant? | (5) |
| 3 | a) | Distinguish point and non-point sources of water pollution with examples | (10) |
| | b) | Discuss the significance of public participation in EIA | (5) |

PART B

Answer any two full questions, each carries 15 marks.

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|---|----|--|------|
| 4 | a) | Discuss the disposal and management practises adopted for e-wastes | (10) |
| | b) | What are the major effects of pesticide pollution? | (5) |
| 5 | a) | Define impact. Give a detailed classification for the different impacts | (10) |
| | b) | Discuss the effect of development on agriculture. | (5) |
| 6 | a) | Discuss the various factors leading to ozone layer depletion and how it is measured. | (10) |
| | b) | Discuss the various characteristics of solid wastes. | (5) |

PART C

Answer any two full questions, each carries 20 marks.

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|---|----|--|------|
| 7 | a) | Explain in detail, different types of impact assessment methodologies | (10) |
| | b) | Discuss how you will prepare an EIA for a national highway | (10) |
| 8 | a) | Give the salient features of air quality standards | (10) |
| | b) | Discuss the limits of noise level in different areas of community | (5) |
| | c) | What you meant by environmental management plan? | (5) |
| 9 | a) | Explain the socio economic impacts usually encountered due to development. | (10) |
| | b) | Discuss the role of an environmental engineering in context with EIA? | (10) |

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh semester B.Tech examinations (S), September 2020

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) | Define EIA and list out the need for EIA | 6 |
| | b) | Write note on screening and scoping as elements of EIA | 9 |
| 2 | a) | Briefly explain about the point and non-point sources of water pollution with examples. | 5 |
| | b) | What are the human health effects of nitrogen dioxide as an air pollutant? | 5 |
| | c) | Define noise pollution and list out common sources of noise pollution | 5 |
| 3 | a) | List out various measures to prevent soil pollution. | 5 |
| | b) | Give details of environmental clearance process in India. | 5 |
| | c) | Discuss how thermal sources contribute towards water pollution. | 5 |

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? | 5 |
| | b) | Discuss on the effect of E- waste on environment | 5 |
| | c) | What are the management practices adopted to minimize the effect of E- waste. | 5 |
| 5 | a) | Write note on global climate change and ozone layer depletion | 10 |
| | b) | List out various practises adopted to control land degradation. | 5 |
| 6 | a) | Explain in detail about pesticide pollution. | 10 |
| | b) | List out the causes of deforestation. | 5 |

PART C*Answer any two full questions, each carries 20 marks.*

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|---|----|--|----|
| 7 | a) | Differentiate between Fault tree and Event tree analysis. | 10 |
| | b) | Explain the socio economic impacts usually encountered due to development. | 10 |

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|---|----|--|----|
| 8 | a) | Explain the air quality standards in detail | 10 |
| | b) | Write note on the water quality standards | 10 |
| 9 | a) | Explain the advantages and disadvantages of (a) matrices and (b) overlays | 10 |
| | b) | Discuss about the socio economic impacts associated with an airport project. | 10 |

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree Examination (Regular and Supplementary), December 2020

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) What is the importance of screening and scoping in environmental impact assessment? (6)
- b) Describe the evolution of environmental impact assessment in India (9)
- 2 a) What are the sources of oxides of sulphur and their effects on humans, material and environment? (9)
- b) What are the problems related to non-point source water pollution. (6)
- 3 a) Name any five industrial projects that require prior environmental clearance. (2.5)
- b) What are the different stages involved in the environmental clearance process in India? (5)
- c) Explain the impacts of pollutants on rivers? (7.5)

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

- 4 a) Write a note on the effects of solid wastes and its management. (8)
- b) Define noise and explain in detail the sources of noise pollution. (7)
- 5 a) What is climate change and what are the issues associated with it? (7)
- b) Illustrate the causes and effects of deforestation. (8)
- 6 a) Pesticides have been an essential part of agriculture. What are the concerns regarding the repeated use of pesticides? (7.5)
- b) How the development influences vegetation and wildlife? (7.5)

PART C*Answer any two full questions, each carries 20 marks.*

- 7 a) Explain any one of the matrix methods adopted in environmental impact assessment. (10)
- b) What are the different steps to perform a fault tree analysis? Explain in detail. (10)

- 8 a) What is the significance of water quality standards in India? (10)
- b) The public should be involved in the decision making process of environmental impact assessment. Substantiate the statement with reasons. (10)
- 9 a) Mention the role of an environmental engineer while conducting environmental impact assessment studies. (10)
- b) Demonstrate a case study of environmental impact assessment of road transportation project. (10)
