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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**  
(AUTONOMOUS)

**B.Tech IV Year I Semester Regular Examinations February-2022**  
**ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT**  
(Civil Engineering)

Time: 3 hours

Max. Marks: 60

**PART-A**

(Answer all the Questions 5 x 2 = 10 Marks)

- |   |   |  |    |    |
|---|---|--|----|----|
| 1 | a | Define IEE                                       | L1 | 2M |
|   | b | What is EIS?                                     | L2 | 2M |
|   | c | Define air pollution                             | L1 | 2M |
|   | d | What is flora and fauna ?                        | L1 | 2M |
|   | e | What is the purpose of Post Environmental Audit? | L1 | 2M |

**PART-B**

(Answer all Five Units 5 x 10 = 50 Marks)

**UNIT-I**

- |   |   |                                      |    |    |
|---|---|--------------------------------------|----|----|
| 2 | a | Explain the basic concept of EIA.    | L1 | 5M |
|   | b | Explain the salient features of EIA. | L2 | 5M |

**OR**

- |   |   |  |    |    |
|---|---|--|----|----|
| 3 | a | Describe in detail about the classification and prediction of impacts. | L1 | 5M |
|   | b | Give a detail note on preparation of EBM.                              | L2 | 5M |

**UNIT-II**

- |   |   |  |    |    |
|---|---|--|----|----|
| 4 | a | List out the qualities and characteristics for the evaluation of impacts in EIA methodology. | L1 | 5M |
|   | b | Discuss in detail about the criteria for the selection of EIA methodology.                   | L2 | 5M |

**OR**

- |   |   |   |    |    |
|---|---|---|----|----|
| 5 | a | Write in detail about the salient features of matrices methods. | L1 | 5M |
|   | b | Brief the four categories of checklist methodology in EIA.      | L2 | 5M |

**UNIT-III**

- |   |   |  |    |    |
|---|---|--|----|----|
| 6 | a | Elaborate the Direct Land-use impacts on land due to the construction of a dam                   | L1 | 5M |
|   | b | Identify the various anticipated impacts of different land use changes with a schematic diagram. | L2 | 5M |

**OR**

- |   |   |  |    |    |
|---|---|--|----|----|
| 7 | a | Draw a flow chart on systematic approach for the study of impacts on soil and groundwater. | L1 | 6M |
|   | b | List the conceptual approach to study surface water environment impacts.                   | L2 | 4M |

**UNIT-IV**

- |   |   |   |    |    |
|---|---|---|----|----|
| 8 | a | Explain about the regulatory mitigation measures for the mitigation of biological impacts.                          | L1 | 6M |
|   | b | Discuss the important aspects of assessment of impacts of any developmental activities on vegetation and wild life. | L2 | 4M |

**OR**

- 9 a Define the terms Hazard, Risk, Probability, and Risk Management. L1 5M  
b Explain the various key steps in performing an Environmental Risk Assessment. L2 5M

**UNIT-V**

- 10 a What are the general guidelines for preparation of TORs for EIA? L1 5M  
b Explain the environmental impact of a dam with a case study. L2 5M

**OR**

- 11 a Discuss about the Environment protection act and its functions. L1 5M  
b Discuss about the Water pollution prevention & protection act and its functions L2 5M

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