

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

B.Tech. III Year I Semester Regular Examinations December-2025

ENVIRONMENTAL IMPACT ASSESSMENT

(Civil Engineering)

Time: 3 Hours

Max. Marks: 70

PART-A

(Answer all the Questions 10 x 2 = 20 Marks)

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|---|---|--|-----|----|----|
| 1 | a | Discuss the need for EIA for Engineering projects. | CO1 | L2 | 2M |
| | b | What is meant by Environmental media quality index method? | CO1 | L1 | 2M |
| | c | Define subjective judgment. | CO2 | L1 | 2M |
| | d | What are the three approaches to impact prediction on soil and groundwater environment in EIA? | CO2 | L1 | 2M |
| | e | Write any two mitigation measures on the destruction of vegetation. | CO3 | L1 | 2M |
| | f | What is meant by Environmental Risk Assessment. | CO3 | L1 | 2M |
| | g | Write the Scope of Environmental Audit. | CO4 | L1 | 2M |
| | h | Audits are divided into how many categories, and what are they? | CO4 | L1 | 2M |
| | i | Write any two salient features of the Wildlife Protection Act, 1972. | CO5 | L1 | 2M |
| | j | What is meant by environmental clearance. | CO5 | L1 | 2M |

PART-B

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

UNIT-I

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| 2 | a | Explain in detail the Initial Environmental Examination. | CO1 | L2 | 5M |
| | b | Discuss merits and demerits of EIA. | CO1 | L2 | 5M |

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| 3 | | Discuss the importance, procedure, advantages and disadvantages of the public hearing process in EIA. | CO1 | L2 | 10M |
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UNIT-II

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| 4 | a | Draw a flow chart on systematic approach for the study of impacts on soil and groundwater. | CO2 | L2 | 5M |
| | b | Write short notes on delineation of study area. | CO2 | L2 | 5M |

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| 5 | a | List the conceptual approach to study surface water environment impacts | CO2 | L2 | 5M |
| | b | What are the physical and chemical characteristics of surface water? Brief it. | CO2 | L2 | 5M |

UNIT-III

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| 6 | | Explain about systematic approach for evaluating biological impacts. | CO3 | L2 | 10M |
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| 7 | | Explain the various key steps in performing an ERA. | CO3 | L2 | 10M |
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UNIT-IV

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| 8 | a | List the Benefits of Environmental Audit. | CO4 | L2 | 5M |
| | b | What are the Objectives of Environmental Audit. | CO4 | L2 | 5M |

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| 9 | a | What are the different types of Environmental Audit? | CO4 | L2 | 5M |
| | b | Discuss the disadvantages of Environmental Audit. | CO4 | L2 | 5M |

UNIT-V

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| 10 | | Discuss about The Environmental Protection Act and its functions. | CO5 | L2 | 10M |
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| 11 | | Explain the steps involved in conducting an Environmental Impact Assessment (EIA) Report. | CO5 | L1 | 10M |
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