

U.S.N.

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

May / June 2025 Semester End Main Examinations**Programme: B.E.****Semester: 8****Branch: Civil Engineering****Duration: 3 hrs.****Course Code: 22CV8PEEIA****Max Marks: 100****Course: Environmental Impact Assessment**

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

| Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice. | | | UNIT - I | <i>CO</i> | <i>PO</i> | Marks |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---------------------------------------------------------------------------------------------------------------------------|------------|-----------|--------------|
| | 1 | a) | Assess the purpose and necessity of conducting an Environmental Impact Assessment (EIA). | <i>CO1</i> | PO1 | 10 |
| | | b) | Analyze the benefits and limitations associated with EIA in the context of developmental planning. | <i>CO1</i> | PO1 | 10 |
| | | | OR | | | |
| | 2 | a) | Examine the relationship between EIA, Environmental Impact Statement (EIS), and Finding of No Significant Impact (FONSI). | <i>CO1</i> | PO1 | 10 |
| | | b) | Elucidate the various types of EIA and their relevance to environmental regulation. | <i>CO1</i> | PO1 | 10 |
| | | | UNIT - II | | | |
| | 3 | a) | Explicate the sequential stages in the EIA process using a schematic representation. | <i>CO1</i> | PO1 | 10 |
| | | b) | Examine the MoEF's siting guidelines for developmental projects in the Indian context. | <i>CO1</i> | PO1 | 10 |
| | | | OR | | | |
| | 4 | a) | Assess the key changes in EIA notifications issued in India over time. | <i>CO1</i> | PO1 | 10 |
| | | b) | Analyze the framework of impact assessment with specific reference to Indian environmental governance | <i>CO1</i> | PO1 | 10 |

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| | | UNIT - III | | | |
| 5 | a) | Examine the effects of proposed projects on various environmental attributes. | CO2 | PO1 | 10 |
| | b) | Assess the various methodologies used in conducting EIA. | CO2 | PO1 | 10 |
| | | OR | | | |
| 6 | a) | Explicate the basis for choosing appropriate EIA methodologies. | CO2 | PO1 | 10 |
| | b) | Evaluate the strengths and weaknesses of the Ad hoc and checklist-based EIA methods. | CO2 | PO1 | 10 |
| | | UNIT - IV | | | |
| 7 | a) | Elucidate the importance of public participation and related regulatory requirements in the EIA process. | CO3 | PO1 | 10 |
| | b) | Assess the pros and cons of involving the public in the EIA process in India. | CO3 | PO1 | 10 |
| | | OR | | | |
| 8 | a) | Examine the objectives and different levels of public participation in EIA processes. | CO3 | PO1 | 10 |
| | b) | Analyze the criteria for selection of public participation techniques. | CO3 | PO1 | 10 |
| | | UNIT - V | | | |
| 9 | a) | Prepare an EMP for dam construction project considering pre-construction, during construction and post construction stages. | CO3 | PO1 | 10 |
| | b) | Prepare an EMP for airport project considering pre-construction, during construction and post construction stages. | CO3 | PO1 | 10 |
| | | OR | | | |
| 10 | a) | Prepare an EMP for hazardous waste disposal sites project considering pre-construction, during construction and post construction stages. | CO3 | PO1 | 10 |
| | b) | Prepare an EMP for highways project considering pre-construction, during construction and post construction stages. | CO3 | PO1 | 10 |
