

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

Autonomous Institute Affiliated to VTU

## August 2024 Supplementary Examinations

**Programme: B.E.**

**Branch: Civil Engineering**

**Course Code: 21CV8PEEIA**

**Course: Environmental Impact Assessment**

**Semester: VIII**

**Duration: 3 hrs.**

**Max Marks: 100**

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

### UNIT - I

- 1 a) Elucidate the salient features of EIA notification 2020 in India. **10**
- b) With a process flow diagram, explicate the significance of EIS and FONSI in the EIA study. **10**

### UNIT - II

- 2 a) With a neat sketch, explain the framework for EIA in India. **10**
- b) Discuss the loopholes and deficiencies in each stage of the EIA process in India. **10**

### UNIT - III

- 3 a) List different methodologies used for impact assessment and elucidate the criteria for the selection of EIA methodologies. **10**
- b) The government desires to construct a new municipal landfill for handling and disposal of excess solid waste generated in Bangalore city. The site identified for the construction of a landfill is near a residential area and a lake. The government body needs to analyze various short term and long term, reversible and irreversible, adverse and beneficial impacts on various environmental components. In this regard, as an EIA skilled person, prepare a simple checklist for analyzing the various impacts of a proposed landfill construction on various components of EIA. **10**

### UNIT - IV

- 4 a) Assess various impacts of any proposed project on different environmental attributes of the EIA study. **10**
- b) Explain the purpose of public participation in EIA. Deliberate various mechanisms of public participation involved in various stages of proposed small-scale and large-scale projects. **10**

**OR**

**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.

- 5 a) Distinguish between the followings: **10**  
i. Environmental Impact Assessment (EIA) and Strategic Environmental Assessment (SEA).  
ii. Rapid EIA and Comprehensive EIA.
- b) With a neat sketch, elucidate different levels of public involvement in EIA. **10**

#### **UNIT - V**

- 6 a) The government proposes an infrastructure development project i.e. to construct a dam for power generation as well as for irrigation purposes. The government needs to analyze significant impacts on various environmental components during each stage of reservoir planning, construction and operation. In this regard, as an EIA skilled person, prepare a Leopold matrix for analyzing the various impacts of a proposed dam on various aspects of EIA during the pre-construction, construction and operation phase. **10**
- b) Prepare a network for assessing impacts on human health, plants, animals and the environment from various pollutants (solid, liquid and gas) emanating from a thermal power plant. **10**

#### **OR**

- 7 a) Elucidate various positive and negative impacts of a proposed irrigation project during the construction and operation phase on physical, natural, economic and socio-cultural environments using a descriptive checklist. **10**
- b) Prepare a simple matrix for identifying the impacts on various environmental components due to various activities during the construction and operation of an airport. **10**

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