

Register No.: ..... Name: .....

## SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SEVENTH SEMESTER B.TECH DEGREE EXAMINATION (S), FEBRUARY 2024**

**(2020 SCHEME)**

**Course Code : 20CET413**

**Course Name: Environmental Impact Assessment**

**Max. Marks : 100**

**Duration: 3 Hours**

### PART A

***(Answer all questions. Each question carries 3 marks)***

1. Explain the concept of EIA. What is the need of EIA for starting an industry?
2. Explain the evolution of EIA considering the global scenario.
3. Describe EIS.
4. List any six projects that comes under 'Category A' project with its specification.
5. Discuss the overlay method for impact assessment.
6. Explain the advantages and disadvantages of Ad Hoc method.
7. Enlist the objectives of Environmental Management Plan?
8. Explain the role of environmental monitoring program.
9. Discuss the environment monitoring program for a quarry mining industry.
10. Explain the social impacts due to a solid waste management project.

### PART B

***(Answer one full question from each module, each question carries 14 marks)***

#### MODULE I

11. a) Explain in detail the salient features of Environmental Protection Act, 1986. (8)
- b) Explain the noise quality standards followed in India. (6)

#### OR

12. a) Explain the features of EIA notification 2006. What are the loopholes and deficiencies in EIA notification 2006? (8)
- b) Discuss the drinking water standards as per IS 10500, 2012. (6)

#### MODULE II

13. Dalmia Bharat Ltd. is planning to commence a new cement production unit having a production capacity of 2 million tonnes per annum at Tiruchirappalli, Tamil Nadu. How will they get an environmental clearance certificate for starting this new industry? Explain the procedure. (14)

**OR**

14. a) Explain the general structure of EIA report. (8)  
b) Enumerate four types of EIA and explain the significance of each. (6)

**MODULE III**

15. Describe the checklist method for impact analysis. Explain the different types of check list available to conduct impact analysis. Prepare a checklist suitable for an airport project. (14)

**OR**

16. a) Describe the steps to conduct socio economic impact analysis? List socio economic impacts causes due to a highway project. (8)  
b) Explain the steps for impact prediction approaches for an air pollution problem. (6)

**MODULE IV**

17. a) Explain the need of environmental audit. Describe the different types of environmental audit? (8)  
b) Describe the principle and structure of ISO 14000 series. Explain the association of ISO 14000 with environment management systems. (6)

**OR**

18. a) Explain the basic structure of an environmental audit. Describe the various steps involved in audit procedure? (10)  
b) Discuss the content of an environment management plan. (4)

**MODULE V**

19. How can we assess the impacts due to a highway project? Explain with a case study. (14)

**OR**

20. Explain the procedure for conducting environmental impact assessment for a hydroelectric power project. (14)

\*\*\*\*\*