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Question Paper Code : 81817

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2025.

Sixth/Eighth Semester

Computer Science and Engineering

OCE 351 — ENVIRONMENT AND SOCIAL IMPACT ASSESSMENT

(Common to: Biomedical Engineering/Computer Science and Design/Computer Science and Engineering(Artificial Intelligence and Machine Learning)/Computer Science and Engineering (Cyber Security)/Computer and Communication Engineering/Electronics and Communication Engineering/Electronics and Telecommunication Engineering/Medical Electronics/Artificial Intelligence and Data Science/Computer Science and Business Systems/Information Technology)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the objectives of Environmental Impact Assessment.
2. Classify the different types of EIA based on purpose.
3. List the possible outcomes of screening process.
4. What models are used to assess Air pollution impacts?
5. Mention the main objectives of an Environmental Management Plan.
6. List the projects, which always need Social Impact Assessment.
7. What is the purpose of a Resettlement and Rehabilitation (R & R) Plan in EIA?
8. How does Cost Benefit Analysis support decision-making in project planning?
9. What potential socio-economic impacts can result from large infrastructure projects?
10. List the developmental projects exempted from public hearing process.

PART B — (5 × 13 = 65 marks)

11. (a) Discuss how Environmental Impact Assessment is used as a planning tool in regulating the developmental activities.

Or

- (b) Examine the role of different stakeholders in the Environmental Impact Assessment process.

12. (a) Explain the various methodologies adopted for prediction of impacts for Environmental Impact assessment Report.

Or

- (b) Discuss how baseline data is used to predict potential environmental impacts.

13. (a) Discuss why Environmental Management Plan is the heart of any Environmental Impact Assessment process.

Or

- (b) Explain the general topical outline for an Environmental impact assessment Report.

14. (a) Illustrate the methods used to collect socio-economic data in Environmental impact assessment.

Or

- (b) Explain the necessity of establishing baseline socio-economic data before project implementation.

15. (a) Illustrate what lessons can be drawn from the case study for future studies on EIA.

Or

- (b) Summarize the terms of reference for conducting Environmental Impact Assessment of Thermal power plant in coastal region.

PART C — (1 × 15 = 15 marks)

16. (a) Discuss how the social impact assessment usually integrated with the overall Environmental Impact Assessment report.

Or

- (b) Describe the common challenges or criticisms of public hearings on EIA Reports in India.