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Question Paper Code : 91527

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 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. Define Environmental Impact Assessment.
2. List the various objectives of EIA.
3. Write short notes on 'Screening'.
4. Provide four impacts of noise pollution.
5. What is the structure of EIA report?
6. List any four mitigation measures that can help in minimising the effects of air pollution.
7. Write short notes 'cost benefit analysis'.
8. Enlist the baseline data that is considered for socio-economic impact assessment.
9. What are the adverse impact caused due to real estate development.
10. State the positive impact caused due to Road developmental plans.

PART B — (5 × 13 = 65 marks)

11. (a) Explain in detail evolution of EIA with reference to India.
- Or
- (b) Discuss in detail the role of various stakeholders in EIA process.
12. (a) Explain in detail the impact prediction and assessment on surface water environment due to a project.
- Or
- (b) Discuss in detail the Leopold matrix method and its significance.
13. (a) Discuss in detail Environmental Monitoring Process in EIA and its importance.
- Or
- (b) Discuss the salient features of public hearing process and the criteria for public participation in EIA.
14. (a) Explain the essential features of any systematic approach for Socioeconomic impacts of any major project activity.
- Or
- (b) Explain in detail Rehabilitation and Resettlement Plan that is considered for any major developmental project.
15. (a) Explain the steps involved in conducting an impact assessment for a hydrothermal power plant.
- Or
- (b) Explain, using a case study, EIA process in existing solid waste disposal yard.

PART C — (1 × 15 = 15 marks)

16. (a) Prepare an EIA report containing the impact prediction, assessment and management measures for a copper mine that is proposed in a forest region.
- Or
- (b) Prepare an EIA report containing the impact prediction, assessment and management measures for a Industrial area that is proposed in outskirts of an urban region.