

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2025

Fifth Semester

Civil Engineering**20CEEL502 - ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT**

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (MCQ) (10 × 1 = 10 Marks)

Answer ALL Questions

Marks *K-
Level* CO

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|---|---|----|-----|
| 1. Identify the study used to predict the effect of a proposed activity or project on the environment.
(a) Environmental Management Plan (b) Environmental Management Bureau
(c) Environmental Impact Assessment (d) Environmental Engineering | 1 | K1 | CO1 |
| 2. Recall the Act that introduced EIA as a mandatory regulatory procedure in the early 1970s.
(a) National Environmental Policy Act (b) National Environmental Protection Council.
(c) National Environmental Agency (d) National Environmental Awareness Act | 1 | K1 | CO1 |
| 3. Recognize the stage that determines whether the proposed project requires an EIA and the level of assessment needed.
(a) Scoping (b) Screening (c) Impact Analysis (d) Public Hearing | 1 | K1 | CO2 |
| 4. EIA mainly aims to
(a) Evaluate the environmental cost of industrial projects
(b) Promote urbanization
(c) Encourage industrial development
(d) Assess the social impact of a project | 1 | K1 | CO2 |
| 5. Recognize the study related to soil characteristics, land use, topography, and drainage pattern within the impact zone.
(a) Biological Environment (b) Water Environment
(c) Noise Environment (d) Land Environment | 1 | K1 | CO3 |
| 6. Identify the study that assesses potential damage to flora and fauna due to project emissions.
(a) Water Environment (b) Land Environment
(c) Biological Environment (d) Air Environment | 1 | K1 | CO3 |
| 7. Which of the following is not a stage in the EIA process?
(a) Screening (b) Scoping (c) Resource allocation (d) Review and decision-making | 1 | K1 | CO4 |
| 8. Identify the item that is not included in an Environmental Impact Assessment report.
(a) Social impacts (b) Economic impacts
(c) Environmental risks (d) Marketing strategies | 1 | K1 | CO4 |
| 9. Recognize the study involving collection of data on endemic diseases and population health within the impact zone.
(a) Land Environment (b) Impact Analysis
(c) Socio-Economic and Health Environment (d) Noise Environment | 1 | K1 | CO5 |
| 10. Which of the following is an important aspect to be consider while Conducting an EIA
(a) Long Term Environmental Sustainability (b) Short Term Economics benefits
(c) Political stability (d) Technological Advancement | 1 | K1 | CO6 |

PART - B (12 × 2 = 24 Marks)

Answer ALL Questions

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|---|---|----|-----|
| 11. What do you mean by EIA? | 2 | K1 | CO1 |
| 12. Name the regional offices places in India for drafting EIA. | 2 | K1 | CO1 |
| 13. Define scoping in EIA process. | 2 | K1 | CO2 |

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| 14. List the composition of the expert committees for EIA. | 2 | K2 | CO2 |
| 15. Show the criteria for the selection of EIA methodology. | 2 | K2 | CO3 |
| 16. Classify the types of matrix method of EIA. | 2 | K2 | CO3 |
| 17. State two criteria used to assess the quality of an EIA report. | 2 | K1 | CO4 |
| 18. Define Environment Management Plan. | 2 | K1 | CO4 |
| 19. Sketch the information flow in prediction and assessment of socio economic impacts. | 2 | K2 | CO5 |
| 20. What are the limitations under National Rehabilitation and resettlement policy 2007? | 2 | K1 | CO5 |
| 21. Outline any two mining projects in India. | 2 | K2 | CO6 |
| 22. List any two wastewater treatment plants in India. | 2 | K1 | CO6 |

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

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| 23. a) Describe in detail about EIA legal framework with a net flowchart. | 11 | K2 | CO1 |
| OR | | | |
| b) Discuss about any five environmental legislation acts in detail. | 11 | K2 | CO1 |
| 24. a) Summarize the key considerations in selecting Environmental impact assessment methodologies. | 11 | K2 | CO2 |
| OR | | | |
| b) Explain in detail about drafting the Terms of Reference. | 11 | K2 | CO2 |
| 25. a) Illustrate in detail about the prediction and assessment of impact on land, water and air. | 11 | K2 | CO3 |
| OR | | | |
| b) Explain in detail the sequential action of environmental management tool with a flow chart. | 11 | K2 | CO3 |
| 26. a) Outline the environmental monitoring requirement, sampling methods, frequency and reporting requirements for Air Quality Monitoring. | 11 | K2 | CO4 |
| OR | | | |
| b) Outline the stages involved in legal land acquisition process. | 11 | K2 | CO4 |
| 27. a) Discuss in detail about the activities involved in R & R programme. | 11 | K2 | CO5 |
| OR | | | |
| b) Describe the Cost Benefit analysis with suitable case study. | 11 | K2 | CO5 |
| 28. a) Explain the Environmental Impact Assessment of any one dam constructed in India. | 11 | K2 | CO6 |
| OR | | | |
| b) Summarize the Environmental impact assessment study of Navimumbai international airport. | 11 | K2 | CO6 |