

Reg. No.

Question Paper Code

11630

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Fifth Semester

Civil Engineering

20CEEL502 - ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

**PART - A (10 × 2 = 20 Marks)**

Answer ALL Questions

- |   | <i>Marks,<br/>K-Level,CO</i> |
|---|------------------------------|
| 1. Enlist the four stages of environmental clearance.                       | 2,K1,CO1                     |
| 2. Distinguish the difference between "Prediction "and "Assessment "in EIA. | 2,K2,CO1                     |
| 3. What is baseline data in EIA?  | 2,K1,CO2                     |
| 4. Write down the mitigation measures for Air and Noise.                    | 2,K1,CO2                     |
| 5. Enlist any four mathematical models for impact prediction of EIA.        | 2,K1,CO3                     |
| 6. Distinguish between Direct impact Indirect impact.                       | 2,K2,CO3                     |
| 7. What are the stages of an Environmental Audit?                           | 2,K1,CO4                     |
| 8. List the essential components of an Environmental Management Plan.       | 2,K1,CO4                     |
| 9. What is mean by public consultation?                                     | 2,K1,CO5                     |
| 10. What is Cost-Benefit Analysis?  | 2,K1,CO5                     |

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

11. a) Illustrate with a flow diagram the various stages involved in EIA clearance process. 13,K2,CO1
- OR**
- b) Explain briefly the Legal and Institutional frame work for EIA. 13,K2,CO1
12. a) Explain in detail about drafting the Terms of Reference. 13,K2,CO2
- OR**
- b) Summarize the Baseline monitoring, Prediction and Assessment concepts in EIA. 13,K2,CO2
13. a) Describe how the matrix method is used for the impact assessment of a mining project. 13,K2,CO3
- OR**
- b) Explain in detail on EIA Report preparation for any development project activities. 13,K2,CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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14. a) Discuss the mitigation measures for soil and ground water impacts. *13,K2,CO4*

**OR**

b) Describe in detail the environmental management plan for Air, Water and Land environment in the context of Thermal power plant project. *13,K2,CO4*

15. a) Describe the significance, features and components of rehabilitation and resettlement plan for socio economic EIA study. *13,K2,CO5*

**OR**

b) Explain in detail about the cost benefit analysis in EIA. *13,K2,CO5*

**PART - C (1 × 15 = 15 Marks)**

16. a) Explain in detail about a case study related to a road construction project. *15,K2,CO6*

**OR**

b) Explain in detail about a case study related to a Dam construction projects. *15,K2,CO6*