



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 2E7AE

B.Tech VII Semester Regular/Supplementary Examinations, November 2022

ENVIRONMENTAL IMPACT ASSESSMENT

(Professional Elective)

(Civil Engineering)

Maximum Marks: 70

Date: 05.12.2022

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

1. Mention the main objectives of EIA.
2. What is role of stakeholders in EIA?
3. Define environmental clearance.
4. Enlist various methods used in EIA studies.
5. What is the need for an Environmental audit?
6. List the mitigation measures that can help in minimizing the effects of air pollution.
7. List the significance of cost benefit analysis in assessment.
8. What is the importance of developing a rehabilitation plan?
9. Give any four environmental impact of power plant project.
10. List any four impacts caused by real estate development project.

Part-B

Answer All the following questions.

(5X10M=50Marks)

11. Discuss in detail the evolution of EIA with special emphasis on Indian scenario. [10]
OR
12. Describe the major steps involved in adopting EIA Process as a planning tool for a project activity. [10]
13. Discuss in detail any two types of EIA methodologies. [10]
OR
14. Describe Check list methods. What are different environmental factors considered in check list methods? [10]
15. Discuss typical mitigation measures that should be adopted for various water related issues. [10]
OR
16. Explain in details types of environmental audit and its benefits. [10]
17. Give a detailed account of public hearing processes and public participation in EIA. [10]
OR

- 18 Discuss the importance of Socio-Economic impact study. Describe the basic steps to be followed to apply environmental clearance. [10]
- 19 Assuming your consultancy firm has won a contract to undertake Environmental Impact Assessment (EIA) study on proposed Mining project in an Eco sensitive zone, explain how will you predict and assess the air and noise pollution that can create impacts on environment. Enlist the effects caused due to it. Describe in detail the systematic approach used for impact studies in soil and groundwater environment in the mining zone? What are the considerations taken for the prediction and assessment of impact on surface water environment? Suggest some mitigation measures to prevent soil erosion, compaction and ground water pollution. [10]
- OR
- 20 Prepare a case study report of an Environmental Impact Assessment in a road project work activity. [10]