



R20 Regulation

Subject code:307CA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Regular Examinations, November 2023

ENVIRONMENTAL IMPACT ASSESSMENT

(Mechanical Engineering)

(Open Elective)

Maximum Marks: 70

Date:09.12.2023 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	What is EIA?	L1
2	What are the ecological factors of EIA?	L2
3	What is Impact prediction?	L2
4	How do EIA contribute to sustainable development?	L2
5	Write the development Activities on wildlife.	L1
6	What is Audit data?	L2
7	List the essential components of an Environmental Management Plan.	L2
8	What are the objectives of environmental Legislation.	L2
9	Write on Environmental Risk Assessment.	L2
10	What is Deforestation?	L1

Part-B

Answer All the following questions. (5X10M=50Marks)

11	A. Explain the classification of environmental parameters. [5] B. Explain the Basic concept of EIA. [5]	L2 L2
	OR	
12	A. Explain the types of EIA. [5] B. Discuss objectives, merits and demerits of EIA. [5]	L2 L2
13	Give the methodology to be adopted for carrying out the impact assessment of soil due to mining. [10]	L3
	OR	
14	A. Write the methodology for assessment of ground water characteristics in the study area? [5] B. Explain in detail about impact significance and mitigation measures of water pollution. [5]	L2 L2
15	Provide an example of an activity that can adversely impact the air environment and suggest an appropriate mitigation action. [10]	L3
	OR	
16	Discuss about the procedure for conducting environmental impact assessment report and write the evaluation of EIA report. [10]	L2

17	A. List the criteria to be considered while selecting an EIA Methodologies. [5] B. Explain the steps involved in planning the baseline data collection for EIA. [5]	L1 L2
	OR	
18	Write a detailed note on generalized approach for assessment of air pollution Impact. [10]	L2
19	Explain the concept of green building and the measures to reduce environmental impacts of construction activities.[10]	L2
	OR	
20	A. Explain Risk assessment and treatment of uncertainty. [5] B. Explain assessment of Impact of development activities on Vegetation and wildlife. [5]	L2 L2