

GUJARAT TECHNOLOGICAL UNIVERSITY

BE MINOR - SEMESTER-VI EXAMINATION – SUMMER 2024

Subject Code:116AB01

Date:27-05-2024

Subject Name:Environmental Impact Assessment

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) State the objectives of EIA.	03
	(b) Define the term “Sustainable Development”. Explain its importance.	04
	(c) Write a brief note on: “Need of EIA for developing countries, especially India”.	07
Q.2	(a) Differentiate between primary impacts, secondary impacts and tertiary impacts.	03
	(b) Explain the importance of mitigation in EIA.	04
	(c) Enlist the different methods of EIA and explain any one in detail.	07
	OR	
	(c) Establish the relationship between human activity and environmental impact for deforestation.	07
Q.3	(a) What is the role of public participation in EIA process?	03
	(b) Which type of projects come under B2 category and why?	04
	(c) Explain EIA is an integral part of the planning and decision making process.	07
	OR	
Q.3	(a) As per EIA Notification, explain which projects require prior Environmental Clearance.	03
	(b) Give the significance of value function graph with example.	04
	(c) Explain the detailed contents of EIA Report.	07
Q.4	(a) Enlist the key players of the EIA. Explain the role of any one.	03
	(b) Explain the importance of mitigation in EIA.	04
	(c) Discuss various direct and indirect impacts likely to occur typically for (i) Land Cleaning Activity and (ii) Road Construction Activity	07
	OR	
Q.4	(a) Give the classification of impacts in detail.	03
	(b) Enlist the environmental components/ attributes likely to be affected by mining project. Explain any one.	04
	(c) Discuss different activities in a major road laying project likely to have impacts on soil and ground water environment.	07
Q.5	(a) Explain the terms screening and scoping.	03
	(b) What is Baseline study? What is its importance in EIA? How is baseline study carried out?	04
	(c) Explain the different types of Checklist methods for EIA.	07

OR

- | | | | |
|------------|------------|---|-----------|
| Q.5 | (a) | Why it is considered that EIS is the conclusion of EIA? | 03 |
| | (b) | Write a note on Matrix methodology | 04 |
| | (c) | Discuss various direct and indirect impacts likely to occur for typical (1) Thermal power plant project (2) Port construction project | 07 |
