

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V EXAMINATION – WINTER 2025

Subject Code:3152207

Date:25-11-2025

Subject Name:Mine Legislation

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) Why First Aid Knowledge is required for Mining Engineering Students? | 03 |
| | (b) Explain the Statutory laws concerned with development and conservation of minerals. | 04 |
| | (c) What is safety committee? Explain the functions of safety committee. | 07 |
| Q.2 | (a) Write the functions of Rescue Station. | 03 |
| | (b) What are the rules related to the Establishment and location of rescue room? | 04 |
| | (c) Discuss the duties and responsibility of manager and safety officer as per CMR-1957. | 07 |
| OR | | |
| | (c) Describe provisions for first aid rooms & First aid station as per Mines Rules 1955. | 07 |
| Q.3 | (a) Define: (1) Minor injury (2) Reportable injury (3) Serious bodily injury. | 03 |
| | (b) Write a short note on Maternity benefit act. | 04 |
| | (c) Describe qualification, duties and responsibilities of ventilation officer as per CMR-1957. | 07 |
| OR | | |
| Q.3 | (a) Write a short note on mine rescue rules. | 03 |
| | (b) Discuss the rules related to the Establishment and location of rescue station. | 04 |
| | (c) Discuss the rules related to mine vocational training. | 07 |
| Q.4 | (a) Write a short note on Mine Creche rules. | 03 |
| | (b) Explain the qualification, duties and responsibilities of rescue room incharge. | 04 |
| | (c) Write a brief note on Environmental protection act. | 07 |
| OR | | |
| Q.4 | (a) Write a short note on Mining lease as per MMRD-1957. | 03 |
| | (b) Explain various provisions for use of electric cables as per Indian Electricity Act and Rules. | 04 |
| | (c) Explain salient features of explosive rules. | 07 |
| Q.5 | (a) Write a short note on Mineral Concession Rule. | 03 |
| | (b) Explain the appointment and duties of under managers or Assistant managers as per CMR-1957. | 04 |
| | (c) Give general requirement about mine plans and sections as per MMR-1961. | 07 |
| OR | | |
| Q.5 | (a) Discuss the Indian electricity rules with respect to mines and mine machineries. | 03 |
| | (b) Explain salient features of Pit Head Bath Rules. | 04 |
| | (c) Describe the appointment, duties and responsibilities of Workmen's Inspector. | 07 |