

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2022****Subject Code:3152207****Date:13-01-2023****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

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| Q.1 | (a) Discuss the general principles of mining laws. | 03 |
| | (b) Describe the qualification and duty of certifying surgeons. | 04 |
| | (c) Explain the hours and limitation of employment as per the Mines Act 1952. | 07 |
| Q.2 | (a) Discuss the salient features of Explosive Rules. | 03 |
| | (b) Describe the salient features of Pit Head bath rules. | 04 |
| | (c) Explain maximum periods and area for which reconnaissance, prospecting & mining lease are granted as per MMDR Act, 1957. | 07 |
| | OR | |
| | (c) Explain the provision of prospecting operations as per MMDR Act, 1957. | 07 |
| Q.3 | (a) Explain the structure of committees as per The Mines act 1952. | 03 |
| | (b) Explain the role of chief inspector and inspector. | 04 |
| | (c) Explain the general requirements for the mine plans and sections. | 07 |
| | OR | |
| Q.3 | (a) Explain the function and power of committees as per The Mines act 1952. | 03 |
| | (b) Discuss why Mines Act, 1957 not apply in certain cases. | 04 |
| | (c) Explain the Statutory laws concerned with development and conservation of minerals. | 07 |
| Q.4 | (a) Describe the function of First Aid Room. | 03 |
| | (b) State the establishment, location & functions of rescue rooms. | 04 |
| | (c) Explain quantity and storage of drinking water as per Mine Rule, 1955. | 07 |
| | OR | |
| Q.4 | (a) Describe the function of First Aid Station. | 03 |
| | (b) State the establishment, location & functions of rescue station. | 04 |
| | (c) Explain storage of explosive as per Indian Explosive Act, 1884. | 07 |
| Q.5 | (a) Explain different types of injury. | 03 |
| | (b) Explain qualification, duties and responsibilities of Mines Manager as per MMR, 1957. | 04 |
| | (c) Explain provisions for use of various electric cables as per Indian Electricity Act & Rules. | 07 |
| | OR | |
| Q.5 | (a) State the purpose behind Vocational Training Rules in detail. | 03 |

- (b) Explain qualification, duties and responsibilities of Safety officer as per MMR, 1957. **04**
- (c) Explain provisions for training of special categories of employees. **07**
