

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**

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

# GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2024

**Subject Code:3152207**

**Date:05-12-2024**

**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
<b>Q.1</b> (a) Discuss the general principles of mining laws.	<b>03</b>
(b) Explain the role of chief inspector and inspector.	<b>04</b>
(c) Explain the general requirements for the mine plans and sections.	<b>07</b>
<b>Q.2</b> (a) State the purpose behind Vocational Training Rules in detail.	<b>03</b>
(b) Describe the qualification and duty of certifying surgeons.	<b>04</b>
(c) Explain quantity and storage of drinking water as per Mine Rule, 1955.	<b>07</b>
<b>OR</b>	
(c) Explain storage of explosive as per Indian Explosive Act, 1884.	<b>07</b>
<b>Q.3</b> (a) Describe the function of First Aid Station.	<b>03</b>
(b) State the establishment, location & functions of rescue station.	<b>04</b>
(c) Explain maximum periods and area for which reconnaissance, prospecting & mining lease are granted as per MMDR Act, 1957.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Describe the function of First Aid Room.	<b>03</b>
(b) State the establishment, location & functions of rescue rooms.	<b>04</b>
(c) Explain the provision of prospecting operations as per MMDR Act, 1957.	<b>07</b>
<b>Q.4</b> (a) Explain the structure of committees as per The Mines act 1952.	<b>03</b>
(b) Explain qualification, duties and responsibilities of Mines Manager as per MMR, 1957.	<b>04</b>
(c) Explain the hours and limitation of employment as per the Mines Act 1952.	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) Explain the function and power of committees as per The Mines act 1952.	<b>03</b>
(b) Explain qualification, duties and responsibilities of Safety officer as per MMR, 1957.	<b>04</b>
(c) Explain provisions for use of various electric cables as per Indian Electricity Act & Rules.	<b>07</b>
<b>Q.5</b> (a) Explain different types of injury.	<b>03</b>
(b) Describe the salient features of Pit Head bath rules.	<b>04</b>
(c) Explain provisions for training of special categories of employees.	<b>07</b>
<b>OR</b>	
<b>Q.5</b> (a) Discuss the salient features of Explosive Rules.	<b>03</b>

- (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**

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**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2023****Subject Code: 3152207****Date: 13-12-2023****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.

		<b>MARKS</b>
<b>Q.1</b>	<b>(a)</b> Discuss the salient features of Explosive Rules.	<b>03</b>
	<b>(b)</b> Explain function of safety committee.	<b>04</b>
	<b>(c)</b> Explain provisions for training of special categories of employees.	<b>07</b>
<b>Q.2</b>	<b>(a)</b> Explain different types of injury.	<b>03</b>
	<b>(b)</b> State the duties and responsibility of manager.	<b>04</b>
	<b>(c)</b> Describe the hours and limitation of employment as per the Mines Act 1952.	<b>07</b>
	<b>OR</b>	
	<b>(c)</b> Explain quantity and storage of drinking water as per Mine Rule, 1955.	<b>07</b>
<b>Q.3</b>	<b>(a)</b> State the purpose behind Vocational Training Rules in detail.	<b>03</b>
	<b>(b)</b> Discuss why Mines Act, 1957 not apply in certain cases.	<b>04</b>
	<b>(c)</b> Explain the general requirements for the mine plans and sections.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	<b>(a)</b> Discuss the general principles of mining laws.	<b>03</b>
	<b>(b)</b> Explain the Statutory laws concerned with development and conservation of minerals.	<b>04</b>
	<b>(c)</b> Discuss various Pit Head Bath Rules in brief.	<b>07</b>
<b>Q.4</b>	<b>(a)</b> Describe the function of First Aid Room.	<b>03</b>
	<b>(b)</b> State the establishment, location & functions of rescue rooms.	<b>04</b>
	<b>(c)</b> Explain maximum periods and area for which reconnaissance, prospecting & mining lease are granted as per MMDR Act, 1957.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	<b>(a)</b> Describe the function of First Aid Station.	<b>03</b>
	<b>(b)</b> State the establishment, location & functions of rescue station.	<b>04</b>
	<b>(c)</b> Explain the provision of prospecting operations as per MMDR Act, 1957.	<b>07</b>
<b>Q.5</b>	<b>(a)</b> Explain the mine creche rules.	<b>03</b>
	<b>(b)</b> Explain qualification, duties and responsibilities of Safety officer as per MMR, 1957.	<b>04</b>
	<b>(c)</b> Explain provisions for use of various electric cables as per Indian Electricity Act & Rules.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	<b>(a)</b> Explain maternity benefit act.	<b>03</b>
	<b>(b)</b> Explain qualification, duties and responsibilities of Mines Manager as per MMR, 1957.	<b>04</b>
	<b>(c)</b> Explain storage of explosive as per Indian Explosive Act, 1884.	<b>07</b>

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

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

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