

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– VII (New) EXAMINATION – WINTER 2019****Subject Code: 2172209****Date: 26/11/2019****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.

		MARKS
<b>Q.1</b>	(a) Describe the basic features of National Mineral Policy.	<b>03</b>
	(b) Describe why Mines Act, 1957 not apply in certain cases.	<b>04</b>
	(c) Discuss the general requirements for the mine plans and sections.	<b>07</b>
<b>Q.2</b>	(a) Explain Conservation of Minerals.	<b>03</b>
	(b) Describe the purpose behind Vocational Training Rules in detail.	<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 reportable injury and serious bodily injury.	<b>03</b>
	(b) Explain qualification, duties and responsibilities of Safety officer as per MMR, 1957.	<b>04</b>
	(c) Explain quantity and storage of drinking water as per Mine Rule, 1955.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Explain function of safety committee.	<b>03</b>
	(b) Explain qualification, duties and responsibilities of Mines Manager as per MMR, 1957.	<b>04</b>
	(c) Explain storage of explosive as per Indian Explosive Act, 1884.	<b>07</b>
<b>Q.4</b>	(a) Explain Misfire, Gassy Seam and Flame Proof Apparatus.	<b>03</b>
	(b) Describe salient features of Explosive Rules.	<b>04</b>
	(c) Explain provisions for training of special categories of employees.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Define the term: General body of air, Auxiliary fan and Booster fan.	<b>03</b>
	(b) Describe various precautions for man winding.	<b>04</b>
	(c) Explain working of Safety Committee in detail.	<b>07</b>
<b>Q.5</b>	(a) Describe the function of First Aid Room.	<b>03</b>
	(b) State the establishment, location & functions of rescue station.	<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) Describe the function of First Aid Station.	<b>03</b>
	(b) State the establishment, location & functions of rescue rooms.	<b>04</b>
	(c) Discuss various Pit Head Bath Rules in brief.	<b>07</b>

\*\*\*\*\*