

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-IV (NEW) EXAMINATION – WINTER 2023****Subject Code:3142207****Date:19-01-2024****Subject Name: Mine Management and General Safety****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) What are the functions of Organization?	<b>03</b>
	(b) Explain different types of wages.	<b>04</b>
	(c) Explain the organizational structure of a typical mining enterprise.	<b>07</b>
<b>Q.2</b>	(a) Write the principles of scientific management.	<b>03</b>
	(b) What are the essential of a good wage system?	<b>04</b>
	(c) Explain the standard costing and budgetary control.	<b>07</b>
	<b>OR</b>	
	(c) What are the advantage and disadvantage of line and function organization?	<b>07</b>
<b>Q.3</b>	(a) Discuss the importance of inventory in material management.	<b>03</b>
	(b) Differentiate between management and administration.	<b>04</b>
	(c) Explain the different types of organization.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Explain break-even analysis.	<b>03</b>
	(b) Explain the determination of norms and standards of operations by work study.	<b>04</b>
	(c) Explain the occupational diseases of health, their causes and preventive measures.	<b>07</b>
<b>Q.4</b>	(a) Write the elements of management functions planning, organization and control.	<b>03</b>
	(b) Explain the importance of mine safety.	<b>04</b>
	(c) Explain the causes of mine accident and its remedies.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Write a note on: Steps of financial control.	<b>03</b>
	(b) What is the importance of store in material management?	<b>04</b>
	(c) Explain the classification and analysis of accidents in mines.	<b>07</b>
<b>Q.5</b>	(a) Explain manpower planning?	<b>03</b>
	(b) Discuss the functions of purchasing department.	<b>04</b>
	(c) Explain the selection process in recruitment.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Write the different aids for the motivation of workers	<b>03</b>
	(b) Write a note on time and motion study.	<b>04</b>
	(c) Explain the Capital and capital management in public and private enterprises.	<b>07</b>