

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2022****Subject Code:3142207****Date:29-06-2022****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**

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|------------|--|-----------|
| <b>Q.1</b> | (a) Discuss the elements of management functions planning, organization and control.   | <b>03</b> |
|            | (b) Explain the determination of norms and standards of operations by work study.      | <b>04</b> |
|            | (c) Explain the standard costing and budgetary control.                                | <b>07</b> |
| <b>Q.2</b> | (a) Discuss the importance of inventory in material management.                        | <b>03</b> |
|            | (b) Explain different types of wages.  | <b>04</b> |
|            | (c) Explain the different types of organization.                                       | <b>07</b> |
|            | <b>OR</b>  |           |
|            | (c) Explain the organizational structure of mining enterprise.                         | <b>07</b> |
| <b>Q.3</b> | (a) Discuss the principles of scientific management.                                   | <b>03</b> |
|            | (b) Discuss the functions of organization.   | <b>04</b> |
|            | (c) Explain the selection process in recruitment.                                      | <b>07</b> |
|            | <b>OR</b>  |           |
| <b>Q.3</b> | (a) Discuss the functions of store management.   | <b>03</b> |
|            | (b) Differentiate between administration and management.                               | <b>04</b> |
|            | (c) Explain the classification and analysis of accidents in mines.                     | <b>07</b> |
| <b>Q.4</b> | (a) Discuss the functions of material management.                                      | <b>03</b> |
|            | (b) Discuss the objectives of material management.                                     | <b>04</b> |
|            | (c) Explain the Capital and capital management in public and private enterprises.      | <b>07</b> |
|            | <b>OR</b>  |           |
| <b>Q.4</b> | (a) Discuss the objectives of purchasing department.                                   | <b>03</b> |
|            | (b) Discuss the functions of purchasing department.                                    | <b>04</b> |
|            | (c) Explain the methods of cost analysis and its control.                              | <b>07</b> |
| <b>Q.5</b> | (a) Discuss the different aids for the motivation of workers.                          | <b>03</b> |
|            | (b) Describe the job evaluation and incentive.   | <b>04</b> |
|            | (c) Explain the causes of mine accident and its remedies.                              | <b>07</b> |
|            | <b>OR</b>  |           |
| <b>Q.5</b> | (a) Explain Nominal wage and Minimum wage.   | <b>03</b> |
|            | (b) Describe the method study and work measurement techniques.                         | <b>04</b> |
|            | (c) Explain the occupational diseases of health, their causes and preventive measures. | <b>07</b> |

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