

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2024****Subject Code:3152210****Date:25-11-2024****Subject Name:Industrial Management****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 basic concepts and needs of industrial management.   | <b>03</b> |
|            | (b) | Describe the objective and functions of production planning.   | <b>04</b> |
|            | (c) | Discuss the various means of material handling which are commonly used in manufacturing plants.                      | <b>07</b> |
| <b>Q.2</b> | (a) | Define CPM. Discuss the system of CPM.   | <b>03</b> |
|            | (b) | Enlist the techniques used in selecting a best location for plant. Explain the procedure for selecting a plant site. | <b>04</b> |
|            | (c) | Enumerate the factors involved in forecasting. State the purpose of short term and long term forecasting.            | <b>07</b> |
| <b>OR</b>  |     |  |           |
|            | (c) | Explain the duties of marketing manager.   | <b>07</b> |
| <b>Q.3</b> | (a) | Discuss the language of CPM.   | <b>03</b> |
|            | (b) | Describe the difficulties encountered in the construction of CPM chart and the use of dummy operations.              | <b>04</b> |
|            | (c) | Explain the advantages and limitations of CPM.   | <b>07</b> |
| <b>OR</b>  |     |  |           |
| <b>Q.3</b> | (a) | Discuss the three time estimates and expected time for PERT.   | <b>03</b> |
|            | (b) | Differentiate between CPM and PERT.  | <b>04</b> |
|            | (c) | Explain the advantages and limitations of PERT.  | <b>07</b> |
| <b>Q.4</b> | (a) | Discuss the steps in production planning.  | <b>03</b> |
|            | (b) | Define marketing. Discuss the principle and functions of marketing.  | <b>04</b> |
|            | (c) | Explain the various inspection standards.  | <b>07</b> |
| <b>OR</b>  |     |  |           |
| <b>Q.4</b> | (a) | Discuss the factors which you need for the selection of a plant.   | <b>03</b> |
|            | (b) | Define the production control. Discuss the different techniques of production control.                               | <b>04</b> |
|            | (c) | Explain the quality management systems.  | <b>07</b> |
| <b>Q.5</b> | (a) | Discuss the factors considered for plant layout.   | <b>03</b> |
|            | (b) | Explain the different types of handling systems.   | <b>04</b> |
|            | (c) | Explain the Gantt chart and its limitation with example.   | <b>07</b> |
| <b>OR</b>  |     |  |           |
| <b>Q.5</b> | (a) | State the principle and purpose of quality control.  | <b>03</b> |
|            | (b) | Explain the difference between inspection and quality control.   | <b>04</b> |
|            | (c) | Explain the flow pattern adopted for the movement of raw materials.  | <b>07</b> |

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