



17577

16117

**3 Hours / 100 Marks**

Seat No.

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- Instructions :**
- (1) All questions are compulsory.
  - (2) Answer each next main question on a new page.
  - (3) Illustrate your answers with neat sketches wherever necessary.
  - (4) Assume suitable data, if necessary.
  - (5) Mobile Phone, Pager and any other Electronic Communication devices are **not permissible** in Examination Hall.

- |   | Marks     |
|---|-----------|
| <b>1. Solve any 5 :</b>   | <b>20</b> |
| 1) Explain in brief any 2 types of production techniques.                         |           |
| 2) State the objectives of method study.  |           |
| 3) What is meant by critical path method ? Give example.                          |           |
| 4) State any 4 points that should be considered while planning under uncertainty. |           |
| 5) What are the various types of maintenance in garment industry ?                |           |
| 6) Explain the need and importance of quality control.                            |           |
| 7) State the objectives of cost accounting.                                       |           |
| <b>2. Solve any 4 :</b>   | <b>16</b> |
| 1) Explain any 2 strategies used in production planning.                          |           |
| 2) State the advantages and importance of flow charts in industrial engineering.  |           |
| 3) What is meant by Activity On Arrow (AOA) ?                                     |           |
| 4) Explain the structure and working of network diagrams.                         |           |
| 5) What are the requirements of good maintenance ?                                |           |
| 6) State any 2 definitions of quality.  |           |
| <b>3. Solve any 4 :</b>   | <b>16</b> |
| 1) Explain the terms 'range' and 'median'.  |           |
| 2) Explain any 2 methods of cost control with suitable examples.                  |           |
| 3) Describe the process of dispatching in detail.                                 |           |
| 4) Write the meaning and importance of ergonomics.                                |           |
| 5) Explain the Fulkerson's rule with relevant example.                            |           |
| 6) What are 3-time estimates ? State its significance.                            |           |

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Marks

16

4. Write notes on **any 4**:

- 1) Break-even analysis.
- 2) Production control.
- 3) SIMO charts.
- 4) Activity On Node (AON) Network.
- 5) Probability of completion of project.
- 6) Cost control.

5. Solve **any 2**:

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- 1) Explain the meaning, working and importance of ‘capacity planning calculations’ and give suitable example.
- 2) Explain in detail ‘Time Study’ and state its importance.
- 3) Write about the forward and backward pass computations in detail.

6. Solve **any 2**:

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- 1) a) Differentiate between CPM and PERT.  
b) Differentiate between breakdown and preventive maintenance.
  - 2) Describe the various statistical tools for quality control in detail.
  - 3) Explain the advantages and economics of using maintenance.
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