

17577

**11718**

**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) Figures to the right indicate full marks.
  - (5) Assume suitable data, if necessary.
  - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Solve any FIVE of the following :**

**20**

- (a) State the activities involved in routing procedure of production planning.
- (b) Describe step-wise procedure of Time study in detail.
- (c) Explain critical path method with example.
- (d) Distinguish between CPM & PERT.
- (e) State various types of maintenance in industry.
- (f) State advantages of statistical quality control.
- (g) Define 'Accounting'. Explain types of accounting.

[1 of 4]

**P.T.O.**

**2. Solve any FOUR of the following :****16**

- (a) Explain objectives of PPC.
- (b) What do you mean by Motion Economy ?
- (c) Explain AOA & AON network diagram in brief.
- (d) State benefits of CPM & PERT methods in project.
- (e) State objectives of cost maintenance.
- (f) Define the following statistical terms :
  - (i) Mean
  - (ii) Mode
  - (iii) Median
  - (iv) Range

**3. Solve any FOUR of the following :****16**

- (a) What is cost accounting ? State advantages of cost accounting.
- (b) What is production control ? Explain the following :
  - (i) Dispatching
  - (ii) Follow up
- (c) Explain work study and ergonomics.
- (d) Explain types of activities in critical path method.
- (e) Write a note on three time estimates.
- (f) What is the purpose of a preventive maintenance ?

**4. Attempt any FOUR of the following :****16**

- (a) Define quality with appropriate example.
- (b) How to calculate Break-Even Point ? Explain with example.
- (c) How to calculate machine requirement for setting up a new factory ? Explain with example.
- (d) Write a note on performance rating and allowances.
- (e) Write in brief about Fulkerson's rule.
- (f) Write a short note on probability of completion of project, giving suitable example.

**5. Attempt any FOUR of the following :****16**

- (a) State importance of Breakdown maintenance.
- (b) What is an X Bar & R Bar chart ?
- (c) Differentiate between cost control and cost reduction.
- (d) Explain types of production in garment industry.
- (e) What are Therblings ? Where they are used ?
- (f) How to do Backward Pass calculation ? Explain with example.

**P.T.O.**

**6. Attempt any FOUR of the following :****16**

- (a) Explain forward pass method of critical path with suitable example.
  - (b) State advantages and economics of using maintenance.
  - (c) Describe various statistical tools for quality control.
  - (d) What is the purpose of having a ledger & journal in an accounting system ?
  - (e) Explain in brief the objectives and uses of SIMO chart.
  - (f) Write a note on 'Inspection' of production control.
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