

17577

11819

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) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Solve any FIVE :

20

- (a) Explain various types of production in brief.
- (b) Describe the different strategies used in production planning.
- (c) State the objectives of steps involved in method study in brief.
- (d) State the advantages of project management.
- (e) Give a brief introduction about 3 time estimates in PERT.
- (f) State the various types of maintenance in the industry.
- (g) Write the advantages of Statistical Quality Control (SQC).

2. Solve any FOUR :

16

- (a) Explain the purpose of various types of control charts in SQC.
- (b) State the objectives and importance of cost accounting.
- (c) Write in brief about the various methods of accounting.
- (d) Explain 'capacity calculations'. Give one example from garment industry.
- (e) Explain any two recording techniques used in method study.
- (f) Write in brief about the activities in CPM.

- 3. Solve any FOUR :** **16**
- (a) Write the Fulkerson's rule for numbering the activities.
 - (b) Differentiate between CPM & PERT.
 - (c) Give a brief account on any one new development in maintenance.
 - (d) Describe the various statistical tools for quality control.
 - (e) Explain the method of entries in ledger giving one example.
 - (f) Define Break Even Point. State its objectives.
- 4. Write notes on any FOUR :** **16**
- (a) Performance Rating
 - (b) Ergonomics in work study
 - (c) Activity on Node Network
 - (d) Critical Path
 - (e) $\bar{X}$ chart
 - (f) Requirements of Good maintenance.
- 5. Solve any TWO :** **16**
- (a) Define mode and median. Explain their role in SQC. Also find mean, mode & median for set [100, 101, 105, 103, 101, 101, 103, 100, 106, 105].
 - (b) Explain in detail Breakdown & Preventive Maintenance.
 - (c) Write a detailed note on probability of completion of project.
- 6. Solve any TWO :** **16**
- (a) Explain the forward and backward pass computations in detail.
 - (b) Write in detail about Motion Economy and state its importance in project management.
 - (c) Give a flow-chart for Production Planning & Control (PPC) functions. Write about each function in brief.
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