

17577

16172

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. (A) Attempt any **THREE** of the following :

12

- (a) Define the “production” and explain the types of production.
- (b) State the objects of production planning and control.
- (c) Explain the following term :
 - (i) Scheduling
 - (ii) Routing
- (d) Describe the concept of Break even point.

(B) Attempt any **ONE**.

6

- (a) Differentiate between CPM and PERT.
- (b) Explain the advantages of various control charts in statistical quality control.

2. Attempt any FOUR :**16**

- (a) Enlist the various factors affecting scheduling and explain any two.
- (b) Compare time study and motion study.
- (c) Differentiate between activity-on-arrow (AOA) and activity-on-node (AON) project network.
- (d) Explain the three time estimates of PERT.
- (e) Enlist the advantage and disadvantage of breakdown maintenance.
- (f) Explain the following terms :
 - (i) Cost accounting
 - (ii) Cost control

3. Attempt any TWO :**16**

- (a) Explain the various functions of “PPC”.
- (b) Define time study and explain the various steps involved in taking a time study.
- (c) Prepare a flowchart of an algorithm involved in C.P.M.

4. (A) Attempt any THREE :**12**

- (a) State any 4 objectives of method study.
- (b) Enlist the different types of activities in critical path method.
- (c) Describe the concept of PERT.
- (d) Give the graphical representation of broken analysis.

- (B) Attempt any ONE :** **6**
- (a) Discuss various steps involve in “PERT”.
 - (b) State the requirements of good maintenance.
- 5. Attempt any TWO :** **16**
- (a)
 - (i) Define “Therbligs” and state its uses
 - (ii) Explain the concept of SIMO chart.
 - (b) Explain the following terms.
 - (i) Event
 - (ii) Activity
 - (iii) Forward and backward path
 - (c) Compare the P-chart and C-chart.
- 6. Attempt any TWO :** **16**
- (a)
 - (i) Enlist the various types of maintenance.
 - (ii) Explain the importance of cost of maintenance.
 - (b) Enlist the types of accounting and explain the books of accounting.
 - (c) Define the following terms by giving one example.
 - (i) Mean (ii) Mode
 - (iii) Median (iv) Range
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