

D 90295

(Pages : 2)

Name

Reg. No

SEVENTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE
EXAMINATION, NOVEMBER 2015

ME/PTME 09 702/AM 09 702—OPERATIONS MANAGEMENT

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. Why study Operation Management ?
2. What is the difference between Production Management and Operation Management ?
3. Define Throughput Ratio.
4. How, precisely does project scheduling differ from the scheduling of ongoing operations ?
5. What is the management significance of finding the critical path through a network ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Why is interfunctional co-operation important for new-product design ? What are the symptoms of a possible lack of interfunctional co-operation ?
7. Identify some of the current trends in operations that you think are of critical importance and write short note about any one.
8. The project process is typically used for skyscraper construction. Does this lead to higher costs ? Explain.
9. Why are facilities decisions often made by top management ? Describe the duties of top management.
10. Describe a forward pass and a backward pass need for a project schedule.
11. Contrast and compare CPM and PERT as a project management techniques.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. Describe the nature of operations management in the following organizations :
 - (a) A college library.
 - (b) A hotel.

Or

Turn over

13. Explain, how can the modular design concept control production variety and at the same time allow product variety.

14. Describe the changes required if the firm moving from a batch process to an assembly line process in terms of finance, marketing, human resources, accounting and information systems.

Or

15. With neat sketch explain the fixed layout of any one manufacturing industry.

16. With an example, explain how is the Gantt chart used as a scheduling tool.

Or

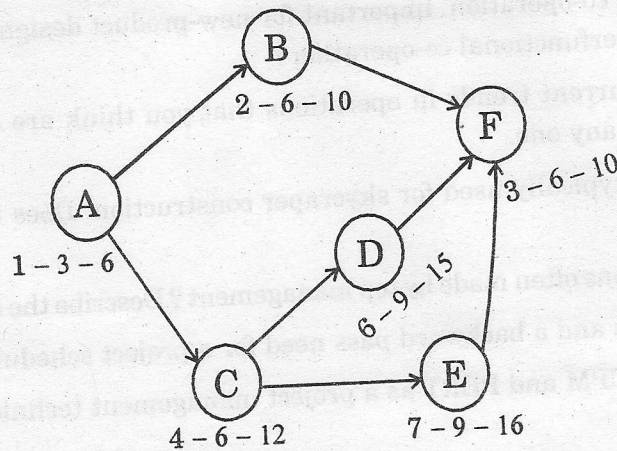
17. In a hardware warehouse, the independent demand for a commonly used bolt is 500 units per month. The ordering cost is Rs. 300 per order placed. The carrying cost is 25 percent per year and each unit cost Rs. 5 :

(a) What lot size should this product have ?

(b) How often should this product be purchased ?

(c) A quality team has found a way to reduce ordering cost to Rs. 50. How will that change the lot size and the frequency of purchasing for this product ?

18. A PERT network drawing and optimistic, most likely and pessimistic activity times listed under each node are given below for a secret military project :



(a) Determine expected time for each activity.

(b) Find the critical path.

(c) Find expected completion time.

Or

19. Explain the preventive maintenance techniques available in an oil industry with neat block diagram.

(4 × 10 = 40 marks)