Total No. of Questions – 10] [Total Pages : 4

(2062)

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M.B.A. Examination

OPERATION MANAGEMENT

Paper–206

(Semester–II)

Time : Three Hours] [Maximum Marks : Regular : 60 / ICDEOL : 70

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/ continuation sheet will be issued.

Note : Attempt *five* questions in all, selecting at least *one* question from each unit. All questions carry equal marks.

UNIT–I

1. Elaborate your understanding about production/operations management from systems viewpoint regarding its characteristics, control and design.

2. Define Productivity. Discuss the importance of productivity measurement and productivity improvement in an industry.

UNIT–II

3. A local distributer for a national tyre company expects to sell approximately 9600 steel-belted radial tyres of a certain size and tread design neat year. Annual carrying costs are Rs. 16 per tyre, and ordering cost are Rs. 75. The distributer operates 288 days a year.

(i) What is the EOQ?

(ii) How many times per year does the store reorder?

(iii) What is the length of an order cycle?

4. Explain following concepts :

(i) Vender rating.

(ii) Value analysis.

(iii) Source selection.

UNIT–III

5. (a) Briefly describe the Procedure for the Time Study. Why is it so important to maintain the time standards?

(b) Explain Cross Functional System and Operational Planning. Discuss potential benefits in improving Management Information System (MIS).

6. Explain the various factors that are to be taken into account for Facility location decision. Discuss in connection with setting up an electronic equipment plant.

UNIT–IV

7. A small project is composed of 7 Activities, whose time estimates are given in the following table. Activities are identified by their beginning (i) and ending (j) node numbers.

Activity (i–j)	Estimated of Duration (in weeks)		
	Optimistic time	Most likely time	Pessimistic time
1-2	1	1	7
1-3	1	4	7
1-4	2	2	8
2-5	1	1	1
3-5	2	5	14
4-6	2	5	8
5-6	3	6	15

Draw the network diagram of the activities of the project and find the critical path, (ii) Find the expected duration and variance for each activity, (iii) What is the expected project length? (iv) Calculate the variance of the project length.

8. What is Gantt Chart? How and when this tool is used? Discuss its limitations with example.

UNIT–V

9. List different control charts and their importance in production process. Explain these control charts with illustrations.

10. Explain the following terms with suitable example :

(a) Single sample plan.

(b) Double sample plan.

(c) Multiple sample plan.