

Total No. of Questions – 10]
(2062)

[Total Pages : 4

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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.

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UNIT-II

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

Lot	Sample 1	Sample 2	Decision
1	0	0	Accept
2	1	1	Accept
3	2	2	Accept
4	3	3	Accept
5	4	4	Accept
6	5	5	Accept
7	6	6	Accept
8	7	7	Accept
9	8	8	Accept
10	9	9	Accept
11	10	10	Accept
12	11	11	Accept
13	12	12	Accept
14	13	13	Accept
15	14	14	Accept
16	15	15	Accept
17	16	16	Accept
18	17	17	Accept
19	18	18	Accept
20	19	19	Accept
21	20	20	Accept
22	21	21	Accept
23	22	22	Accept
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25	24	24	Accept
26	25	25	Accept
27	26	26	Accept
28	27	27	Accept
29	28	28	Accept
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38	37	37	Accept
39	38	38	Accept
40	39	39	Accept
41	40	40	Accept
42	41	41	Accept
43	42	42	Accept
44	43	43	Accept
45	44	44	Accept
46	45	45	Accept
47	46	46	Accept
48	47	47	Accept
49	48	48	Accept
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66	65	65	Accept
67	66	66	Accept
68	67	67	Accept
69	68	68	Accept
70	69	69	Accept
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93	92	92	Accept
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95	94	94	Accept
96	95	95	Accept
97	96	96	Accept
98	97	97	Accept
99	98	98	Accept
100	99	99	Accept