

[Total No. of Questions - 10] [Total No. of Printed Pages - 2]  
(2064)

14878

MBA 2nd Semester Examination

Operations Management (O.S.)

206

Time : 3 Hours

Max. Marks : 60

*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 only five questions in all, selecting one question from each unit. All questions carry equal marks.

**UNIT - I**

1. Explain continuous production system including its characteristics and suitability. (12)
2. Explain the importance of operations management and state its objectives. (12)

**UNIT - II**

3. What is demand forecasting? What are the steps involved in it? (12)
4. A company uses 1200 units per month of an electronic item each costing Rs. 2/- placing each order costs Rs. 50/- and carrying cost is 6% per year of average inventory.
  - (i) Find EOQ.
  - (ii) If the company gets 5% discount if it places single order, should the company accept the discount offer. (12)

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**UNIT - III**

5. What do you mean by production control? Enumerate its objectives. (12)

6. A project consists of the following activities:

activity	1-2	1-3	1-4	2-5	2-6	3-6	4-7	5-7	6-7
to	3	2	6	2	5	3	3	1	2
tm	15	14	30	8	17	15	27	7	8
tp	6	5	12	5	11	6	9	4	5

(a) Draw the network.

(b) Determine the expected time and variance for each activity.

(c) Find the critical path.

(d) What is the probability that project will be completed by 27 days? (12)

**UNIT - IV**

7. What is Lot Acceptance sampling? Discuss the various methods of Lot Acceptance sampling. Distinguish between single, Double and multiple sampling plans.

8. From the following information workout the control limits for p-chart. Also draw p-chart.

Sample No.	1	2	3	4	5	6	7	8	9	10
No. of units inspected	505	510	512	515	513	515	514	540	520	516
No. of defectives	10	20	15	8	12	14	17	10	11	13

(12)

**UNIT - V**

9. Define what do you mean by plant layout. Enumerate objectives of plant layout. (12)

10. Define work study. What is the role of work study in a Modern Industrial System? (12)