



MBA &amp; MBA (Finance) II Semester Regular &amp; Supplementary Examinations June 2019

**OPERATIONS MANAGEMENT**

(For students admitted in 2017 &amp; 2018 only)

Time: 3 hours

Max. Marks: 60

All questions carry equal marks

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**SECTION – A**

(Answer the following: 05 X 10 = 50 Marks)

- 1 Explain product and process design with an example.

**OR**

- 2 Describe the historical development of production and operations management.

- 3 Discuss various types of layouts with their advantages and disadvantages.

**OR**

- 4 Explain capacity planning and also determination of feasible production alternatives.

- 5 Explain line of balance with an illustration.

**OR**

- 6 What are the two Johnsons rules and also find the sequence of jobs which minimizes the total elapsed time when the route is M1 to M2 and also find elapsed time for the following data:

| Element | A | B | C | D | E | F |
|---------|---|---|---|---|---|---|
| M1      | 2 | 4 | 1 | 3 | 2 | 7 |
| M2      | 3 | 1 | 2 | 4 | 6 | 2 |

- 7 What is work study? Explain the work measurement procedure.

**OR**

- 8 Explain various control charts for variables with illustrations.

- 9 Discuss various issues in materials management.

**OR**

- 10 Explain the process of raw material purchase.

**SECTION – B**

(Compulsory question, 01 X 10 = 10 Marks)

- 11
- Case Study:**

Seven samples each of size 100 were selected from a lot and the following defectives were found. Construct p-chart and comment on the result.

|                   |   |   |   |   |   |   |   |
|-------------------|---|---|---|---|---|---|---|
| Sample No.        | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| No. of Defectives | 3 | 4 | 2 | 1 | 3 | 2 | 2 |

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