

FACULTY OF MANAGEMENT
MBA (CBCS) III - Semester Examination, March 2022

Subject: Operations Management
Paper No. MB - 301

Time: 3 Hours

Max. Marks: 80

PART – A**Note: Answer all questions.****(5 x 4 = 20 Marks)**

1. Explain Continuous Process Technology.
2. What is Line Balancing.
3. Explain Nature of services.
4. Explain Manufacturing Resource Planning.
5. Explain Fixed order quantity systems.

PART – B**Note: Answer any five questions.****(5 x 12 = 60 Marks)**

6. Explain the similarities and differences between Products & Services with suitable examples?
7. Explain the Interface between Product Life Cycle & Process Life Cycle?
8. Explain the different types of plant layouts?
9. What do you mean sequencing? Explain the Johnson's rule procedure for n-jobs and two (2) facilities?
10. Explain the meaning and objectives of work study?
11. Explain the various dimensions of service quality?
12. Explain the importance and objectives of material requirement planning?
13. A manufacturing firm uses 12 items in its process. The Annual requirement of the items and their cost is given below.

| Item | Annual Requirement (Unit) | Cost per unit (Rs) |
|------|---------------------------|--------------------|
| A | 9000 | 140 |
| B | 3600 | 600 |
| C | 240 | 2300 |
| D | 4300 | 340 |
| E | 656 | 945 |
| F | 18000 | 945 |
| G | 11500 | 50 |
| H | 3500 | 80 |
| I | 600 | 540 |
| J | 175 | 1800 |
| K | 656 | 3200 |
| L | 480 | 2150 |

You are required to classify the materials into ABC categories and give a graphical presentation of the same.

14. What is safety stock and why is it considered so important in inventory.
15. Seven jobs are to be processed on two machines A and B In the order AB. Each Machine can process only one job at time. The processing time (in hrs) are as follows. Find the total elapsed time and also compute the idle time for both the machines.

| Job | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-----|----|----|----|---|----|---|----|
| M-A | 10 | 12 | 13 | 7 | 14 | 5 | 16 |
| M-B | 15 | 11 | 8 | 9 | 6 | 7 | 16 |

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