

FACULTY OF MANAGEMENT

**M.B.A. II – Semester (OLD) & M.B.A. IV – Semester (Evening) Examination,
May / June 2019**

Subject: Operations Management

Course No. 2.6 / 4.1

Time: 3 Hours

Max. Marks: 80

Note: Answer all the questions.

PART – A (10x2 = 20 Marks)

[Short Answer Type]

1. Answer the following in not more than 75 words.

- a) PPC
- b) Characteristics of Process Technologies
- c) Line Balancing
- d) Failure Concept
- e) Control Charts of Variables
- f) Acceptance Sampling Plans
- g) Planning Materials
- h) Performance of Suppliers
- i) Management of Stores
- j) Value Analysis

PART – B (5x12 = 60 Marks)

[Essay Answer Type]

Note: Answer all the questions by using internal choice.

- 2 a) What is Process Design? Bring out the steps in the process design.
OR
- b) Explain the different stages in a product life cycle. Bring out the manufacturing strategies and challenges of each stage in the life cycle.
- 3 a) How plant capacity is related with plant layout, process design and equipment selection?
OR
- b) Develop a model for the replacement of items whose maintenance costs increase with time. The following table gives the running costs per year and resale price of a certain equipment, whose purchase price is Rs.5,000.

Year	1	2	3	4	5	6	7	8
Running Cost	1500	1600	1800	2100	2500	2900	3400	4400
Resale Value	3500	2500	1700	1200	800	500	500	500

In what year is the replacement due?

- 4 a) The following data the values of sample mean and range for 10 samples of size 6 each. Draw the control charts and comment on the state control.

Sample No.	1	2	3	4	5	6	7	8	9	10
Mean	43	49	37	44	45	37	51	46	43	47
Range	5	6	5	7	7	4	8	6	4	6

OR

- b) State the objectives of Work Measurement. What are its benefits?
- 5 a) Explain the various vendor rating techniques.
- OR**
- b) What is the role of purchasing manager in make-or-buy decision?
- 6 a) What is the importance of physical stock checking in inventory control?
- OR**
- b) From the following data, draw and ABC analysis graph after classifying A, B & C class items.

Item	Unit Price	Annual Consumption (Units)
1	200.0	3,000
2	2.0	60,000
3	500.0	20
4	12.5	200
5	9.0	350
6	25.0	6,000
7	1000.0	40
8	70.0	300
