

FACULTY OF MANAGEMENT**M.B.A. III – Semester (CBCS) Examination, May / June 2018****Subject : Operations Management****Paper – MB-301****Time : 3 hours****Max. Marks : 80****PART – A (5 x 4 = 20 Marks)**
(Short Answer Type)

- 1 Types of Manufacturing processes
- 2 Aggregate planning
- 3 Work study
- 4 Value analysis
- 5 Need for materials management

PART – B (5 x 12 = 60 Marks)
(Essay Answer Type)

- 6 a) Describe and compare the phases in product life cycle and process life cycle.

OR

- b) Write about job, batch and mass production systems.

- 7 a) Explain the factors influencing product and process layout.

OR

- b) Five elements of a job are subjected to five cycles. The time recorded in minutes is given below.

Element	Cycles				
	C ₁	C ₂	C ₃	C ₄	C ₅
A	33	26	30	27	35
B	36	30	28	27	32
C	44	25	32	30	38
D	39	28	24	25	36
E	32	31	29	23	42

You are required to find the normal time and standard time of the job considering 15% of it as allowance.

- 8 a) Describe the procedure of master production scheduling.

OR

- b) Explain about development of aggregate plans for service organizations.

- 9 a) What are the various techniques used for rating a vendor?

OR

- b) Describe the process of materials requirement planning.

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- 10 a) The annual requirement of a material is 72000 units. The cost of placing an order is Rs.456 and the carrying cost per unit per annum is Rs.3.45. You are required to find the EOQ and number of orders to be place in a year. Further for a 11% increase or decrease in carrying cost what would be the EOQ and number of orders in a year.

OR

- b) Categorise the following materials into A, B and C and give a graphical presentation of the same.

Items	Units	Unit Price (Rs.)
A	9870	23
B	245	45
C	18900	22
D	27400	8
E	9000	46
F	3200	32
G	15400	9
H	650	200
I	9000	111
