

Code No. 9093

FACULTY OF MANAGEMENT**MBA II – Semester Examination, May / June 2017****Subject: Operations Management****Course No. 2.6****Time: 3 Hours****Max. Marks: 80****PART – A (10x2 = 20 Marks)**
[Short Answer Type]**Note: Answer all the questions.****1. Write short notes on the following.**

- a) Operation system
- b) Production planning
- c) Process life cycle
- d) Line balancing
- e) LTPD
- f) Quality circles
- g) Work study
- h) Make or buy decision
- i) Value analysis
- j) Safety stock

PART – B (5x12 = 60 Marks)
[Essay Answer Type]**Note: Answer all the questions.**

- 2 a) What is a production cycle? What are the characteristics of process technologies?
OR
b) Define 'Operations Management'. Examine its relationship to other functional areas.
- 3 a) What is meant by layout? What are the different types of layouts?
OR
b) Determine the sequence that shall minimize the total processing time.

Job	M ₁	M ₂	M ₃
J ₁	15	6	10
J ₂	16	10	9
J ₃	14	7	8
J ₄	12	10	11
J ₅	14	11	7
J ₆	18	8	13

...2.

- 4 a) Briefly explain about the advantages and different methods of work measurement.
OR
- b) A manufacturer purchases small bolts in cartons that usually contain several thousand bolts. Each shipment consists of a number of cartons. As a part of acceptance procedure for these bolts, 400 bolts are selected at random from each carton and are subjected to visual inspection for certain defects. In a shipment of 10 cartons, the respective percentages of defectives in the samples from each carton are 0, 0, 0.5, 0.75, 0, 2.0, 0.25, 0, 0.25, and 1.25. Does this shipment of bolts appear to exhibit statistical control with respect to the quality characteristics examined in the inspection?
- 5 a) Critically examine the need and importance of Materials Management.
OR
- b) What is meant by vendor rating? What are the determinants of vendor rating?
- 6 a) Outline the procedures employed in cost reduction.
OR
- b) The following are the details of material used in a Hospital. As a stores manager, how do you plan to arrange the material which should be the ideal level of inventory?

Annual consumption	=	1,00,000 (units)
Cost of the material	=	Rs. 5/- per unit
Ordering cost	=	Rs. 20/- per order
Inventory carrying cost	=	36% of the inventory cost
Lead time	=	30 days
Safety stock	=	20 days consumption
