

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 270212

Roll No.

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M.B.A.

Theory Examination (Semester-II) 2015-16

PRODUCTION & OPERATION MANAGEMENT

Time : 3 Hours

Max. Marks : 100

Section-A

Q1. Attempt all questions, Each question carries equal marks.
(2×10=20)

- (a) Define Stop watch method.
- (b) Six Sigma.
- (c) Define OCC with graph.
- (d) Define REL Chart.
- (e) Just in Time (JIT)
- (f) What is FSN analysis?

- (g) ABC Analysis
- (h) Define line balancing.
- (i) Define BOM.
- (j) What do you understand by MRP II ?

Section-B

Q2. Attempt any five questions from this section. Each question carries equal marks. (10×5=50)

- (a) Define Production & Operation management. Discuss the responsibilities of an operation manager.
- (b) Define facility layout planning. What are the objectives of facility layout and define the factors affecting facility layout planning.
- (c) What do you understand by location planning? Explain different models which can be used to choose an effective location for business.
- (d) What do you understand by preventive maintenance? Why an organization should focus on this?

- (e) What method is followed for the new product development? What is the role of production department in new product development?
- (f) Explain the significance of forecasting in production and operation management? What are the various methods of forecasting?
- (g) The production department of a company requires 3600 kg of raw material for manufacturing an item annually. Order cost is Rs. 36 and carrying cost is 25 percent. The price is Rs. 10 per Kg, calculate EOQ, optimal order cycle time and total cost.
- (h) What do you understand by MPS? Explain the functions and relationship of MPS to other manufacturing and control activities.

Section-C

Attempt any two questions from this section. Each question carries equal marks. (15×2=30)

- Q3. What do you understand by total productive maintenance? Define 5 pillars of TPM in detail.
- Q4. Explain in detail about the quality circle. How does it help in quality improvement?

Q5. T&D Corporation is searching for a new location for establishing new plant. After a wide search, the corporation has found three locations-XYZ. Could you help to choose the best location by using the following information?

Factors	Locations		
	X (Rs.)	Y (Rs.)	Z (Rs.)
Land cost	Rs 1,00,000	Rs 1,50,000	Rs 1,20,000
Raw material cost	Rs. 4 per unit	Rs. 2 per unit	Rs. 2 per unit
Power cost	Rs. 2 per unit	Rs. 3 per unit	Rs. 2 per unit
Labor cost	Rs. 1 per unit	Rs. 2 per unit	Rs. 1 per unit
Machine cost	Rs. 3 per unit	Rs. 1 per unit	Rs. 2 per unit
Transportation cost for 1000 units (60% fixed & 40% variable)	Rs. 8000	Rs. 4000	Rs. 5000
Taxes (for 1000 units)	Rs. 4000	Rs. 6000	Rs. 5000

Help the organization to find out the best location if it is going to produce 1000 units.