

**Paper Code: MBA-025**

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**MBA**  
**(SEM II) EVEN SEMESTER EXAMINATION, 2015-16**  
**PRODUCTION & OPERATION MANAGEMENT**

[TIME: 3 hrs]

[Max. Marks: 100]

**Note-**Attempt All questions .All questions carry equal marks.

**1.** Write short note on any **four** of the following: -

[5x4=20]

- (a) EOQ Model.
- (b) PDCA Cycle
- (c) Master Production Scheduling
- (d) Line of Balance.
- (e) SED Analysis.
- (f) Decoupling & Seasonal Inventory

**2.** Attempt any **two** parts of the following: -

[10x2=20]

- (a) Define Production & Operations management and explain the linkage of Production department with other functional department of organization?
- (b) Discuss the benefits derived from efficient Production management. Explain the various responsibilities of production & operations manager?
- (c) Explain the Production Cycle. Also discuss different types of Production System with suitable examples?

**3.** Attempt any **two** parts of the following:-

[10x2=20]

- (a) What do you understand by the concept of Product Design? Elaborate the steps involved in designing a product?
- (b) Explain the factors affecting Facility Location Planning. What are the repercussions if location of a facility is not planned properly?
- (c) How many types of basic Layout are there for a facility? Briefly explain each of them with suitable examples?

**4.** Attempt any **two** parts of the following:

[10x2=20]

- (a) What is the need of Demand Forecasting? Discuss the various qualitative method of forecasting?
- (b) Define the concept of work study. Discuss the various steps in method study in detail.

- (c) A time study engineer has studied the time taken to machine crank shafts. He has taken 40 observations and these are summarized in the form of frequency distribution as shown below:

Time (Minutes)	Frequency
20	15
21	10
22	10
23	5

The Performance rating of the operator machining the crank shaft is 110 per cent. Find the standard time for machining the crank shaft by assuming allowance of 15 per cent.

5: Attempt any **two** parts of the following:

[10x2=20]

- (a) List and briefly discuss the various phases of Production Planning & Control?
- (b) Agro Industry estimates that it will sell 12,000 units of its product for the forthcoming year. The ordering cost is Rs. 100 per order and the carrying cost per unit per year is 20 per cent of the purchase price per unit. The purchase price per unit is Rs. 50.  
Find-  
(i) *Economic Order Quantity( EOQ)*  
(ii) *No. of orders per year*  
(iii) *Time between successive orders*
- (c) Write a note on Total Productive Maintenance. Explain any two basic quality control tools in detail?