



RF-4315-16

M. B. A. (Sem. II) (FT) & (Eve) (ATKT) Examination
April / May – 2010
Production & Operations Management
(Old Course)

Time : 3 Hours]

[Total Marks : 100

RF-4315

Instructions :

(1)

नीचे दशांशके निशानीवाणी विगतो उत्तरवडी पर अवश्य कभववी. Fillup strictly the details of signs on your answer book.		Seat No. :	
Name of the Examination :		<input type="text"/>	
M. B. A. (SEM. 2) (FT) & (EVE) (ATKT)		<input type="text"/>	
Name of the Subject :		<input type="text"/>	
PRODUCTION & OPERATIONS MANAGEMENT (OLD)		<input type="text"/>	
Subject Code No. : <input type="text"/> 4 <input type="text"/> 3 <input type="text"/> 1 <input type="text"/> 5		Section No. (1, 2.....) : <input type="text"/> 1	
		Student's Signature	

- (2) Answers to the two sections to be written in two separate answer books.
- (3) Question 1 and Question 5 are compulsory. Attempt any two full questions from question 2-4 and two full questions from 6-8.
- (4) Figures to the right indicate full marks.

- 1 (a) Define Operations and Production Management. **10**
Discuss the importance of production function in an organization.
- (b) Location A would result in fixed costs of Rs. 3,00,000, 8 variable cost of Rs. 63 per unit and revenues of Rs. 68 per unit. Annual fixed costs at location B are Rs. 8,00,000 with variable cost of Rs. 32 per unit and revenue of Rs. 68 per unit. Sales volume is estimated to be 25,000 units/year. Which location is more attractive?
- 2 What do you mean by Demand Forecasting? List the **16**
Forecasting Methods and explain any two methods of demand forecasting along with their advantages and disadvantages.

- 3 (a) Find the sequence that minimizes total elapsed time required to complete the following tasks on two machines. Also determine idle time on each machine and total elapsed time. 10

Task	A	B	C	D
Machine -1	2	5	3	9
Machine -2	6	8	7	4

- (b) Write a short note on Materials handling systems. 10
- 4 Write short notes (any two) 16
- (i) Process layout
(ii) New Product Development
(iii) Factors affecting the selection of a new facility
(iv) Productivity
(v) Value engineering/Value Analysis
(vi) Assembly Line Balancing.

RF-4316

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- (2) Answers to the two sections to be written in two separate answer books.
- (3) Question 1 and Question 5 are compulsory. Attempt any two full questions from question 2-4 and two full questions from 6-8.
- (4) Figures to the right indicate full marks.

- 5 (a) A company uses annually 48000 units of raw material which costs Rs. 1.20 per unit. Ordering costs is Rs. 45 and carrying cost is 15% of purchase price. Find out economic order quantity. 8
- (b) What is inventory and why do we need to have inventory control? Explain ABC analysis technique of inventory control. 10

- 6 (a) One unit of A is composed of 2 units of B and 3 units of C. Each B is composed of one unit of F. C is made of one unit of D, One unit of E and two units of F. Prepare a product structure tree. Suppose 100 units of A is required, How many units of B,C,D,E and F are required? **6**
- (b) Write a short note on Material Requirement Planning (MRP). **10**

- 7 Using the following data relating to 10 samples of 5 item each, calculate the control limits for the x bar and R chart and check whether the process is in control or not. (Take $A_2 = 0.577$, $D_3 = 0$ and $D_4 = 2.116$) **16**

Sample	Dimensions in Cms.				
1	1.04	0.98	0.99	1.00	1.01
2	0.98	0.98	0.98	1.03	1.01
3	1.01	1.02	1.02	1.04	0.98
4	0.97	0.99	1.01	0.95	0.97
5	1.04	1.02	1.01	1.00	1.00
6	1.03	1.01	0.97	0.98	0.99
7	1.00	1.02	0.98	1.01	1.01
8	1.00	1.01	0.99	0.99	0.95
9	0.99	1.02	1.03	1.01	0.97
10	0.96	0.95	1.02	1.03	1.01

- 8 Write short note (any two) **16**
- (i) Total Quality Management
- (ii) Time Study
- (iii) Maintenance Management
- (iv) Just In Time Manufacturing (JIT)
- (v) Purchasing Management
- (vi) Aggregate Production Planning.