



RF-43115-16

M.B.A. (Sem. II) (FT) & (Eve.) (CP-204) Examination
April / May - 2010
Production & Operations Management

Time : 3 Hours]

[Total Marks : 70

Instruction :

(1)

नीचे दृष्टवित निशानीवाणी विगतो उत्तरवही पर अवश्य दभवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M.B.A. (Sem. II) (FT) & (Eve.) (CP-204)

Name of the Subject :
Production & Operations Management

Subject Code No. : 4 3 1 5 Section No. (1, 2,.....) : 1-2

Seat No. :

Student's Signature

(2) Figures to the right indicate full marks of the question.

(3) Show the necessary calculation is a part of your answer.

Instructions :

- Answers to the two sections to be written in two separate answer books
- Question 1 and Question 5 are compulsory . Attempt any Two Full questions from Question 2 – 4 and TWO Full Questions from 6 – 8.
- Figures to the right indicates Full Marks .

SECTION - I

Question : 1(A). Define Operations & production Management. Discuss the importance of production function in an organization. (10)

(B) Location A would result in fixed costs of Rs 3,00,000, 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 ? (8)

Question : 2 . What Do you mean by Plant Layout? Explain any Two types of layout along with its advantages and disadvantages . (16)

Question : 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) Briefly explain the factors affecting the selection of a new facility Location

(6)

Question : 4 Write Short Notes .

(Any Two)

(16)

1. Demand Forecasting
2. New product development
3. Productivity
4. Value engineering / Value Analysis
5. Assembly Line Balancing
6. Materials handling System

नीचे दशांशवले निशानावाणी विगतो उत्तरवली पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

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- (1) Answers to the two sections to be written in two separate answer books
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Question : 5 (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 & F are required?

(8)

(B) Write a Short note on Material Requirement Planning (MRP)

(10)

Question : 6 (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 .

(6)

(B) What is inventory and why do we need to have inventory control? Explain ABC analysis technique of inventory control.

(10)

Question : 7 . Using the following data relating to 10 samples of 5 item each , calculate the control limits for the \bar{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

Question : 8 Write Short Note (Any TWO)

(16)

- 1. Total Quality Management**
 - 2. Time Study**
 - 3. Maintenance Management**
 - 4. Just in Time Manufacturing (JIT)**
 - 5. Purchasing Management**
 - 6. Aggregate Production Planning**
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