

Lib

(6A)

**SARDAR PATEL UNIVERSITY**

**MASTER OF BUSINESS ADMINISTRATION EXAMINATION**

**SECOND SEMESTER**

2008

FRIDAY, 2<sup>ND</sup> MAY

Time: 11.00 a.m. to 2.00 p.m.

Marks: 60

**CC – 113 PRODUCTION AND OPERATIONS MANAGEMENT**

- Notes: (1) Figures to the right indicates marks of individual question.  
(2) All questions are compulsory.  
(3) It is a closed book examination.  
(4) Be precise and to the point in your answers.

- Q.1 (a) Describe in not more than 70 words, the nature of production and operations management. (03)  
(b) Prepare a layout for 10-bed eye hospital. (09)
- Q.2 (a) What factors will you consider for locating a 'car dealer showroom'. (07)  
(b) Write a brief note on material handling equipment. (05)
- Q.3 (a) Assembly of an item is to be carried out. The whole assembly is divided into 10 components, the details of which are given in the following table: (07)

Activity	Predecessors	Time in Minutes
A	None	3
B	None	5
C	A, B	4
D	B	2
E	A	1
F	C	7
G	E, F	5
H	D, F	6
I	G, H	8
J	I	7

Balance the line for 8 minutes. Find balance delay. If there are 300 working days and the company is open for one shift of eight hours, how many units of the item will be manufactured?

- (b) Describe 'operation process chart'. (03)  
(c) Differentiate between 'centralised store' and 'decentralised store'. (02)

(2)

- Q.4 (a) Write a brief note on 'Aggregate Planning'. (03)
- (b) Briefly describe 'Material Requirement Planning'. (03)
- (c) A company is desirous of keeping its inventory under control for a particular item whose details are given below: (06)

Annual demand : 1,60,000 units  
Price per unit : Rs. 20  
Carrying cost : Re. 1 per unit / 5 percent of inventory value  
Cost per order : Rs. 50

Find:

- (i) EOQ
- (ii) Number of orders
- (iii) Ordering Cost
- (iv) Time between Two orders
- (v) Inventory Carrying Cost
- (vi) Average Inventory
- (vii) Total Cost

- Q.5 Write short notes on: (12)
- (a) Maintenance Management
  - (b) Total Quality Management
  - (c) Safety Management
  - (d) Just in Time

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