

SVKM's NMIMS
NMIMS Global Access – School for Continuing Education

Programme: DSCM/PGDSCM

June 2013 Examination
Subject: Operations Management

Semester: II
Course New
Marks 70

Date: 24.06.2013

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

INSTRUCTIONS:

1. All questions are compulsory
2. Figures in the bracket indicate full marks

Q.1. Write Short Notes (Any 2 out of 4) (10)

- a. Process Design
- b. Operations Management
- c. Assembly Line
- d. Delphi Method

Q.2. Write Short Notes (Any 2 out of 5) (10)

- a. Materials Budgeting
- b. Technology Lifecycle
- c. P system of Inventory Control
- d. Interface between Production and Finance Department
- e. KANBAN

Q.3. Attempt any three out of five (30)

- a. Distinguish between dependent demand inventories and independent demand inventories.
- b. Explain the important elements or components of a JIT system in manufacturing.
- c. What is Scheduling? Briefly discuss the objectives of scheduling and the various problems in scheduling.
- d. What are inventory decisions? Discuss the basic EOQ model with suitable examples.
- e. Explain the working of Computer Aided Manufacturing System. Differentiate between CAD and CIM.

Q.4. Answer the following

(20) TOTAL

a. A company which manufactures certain consumer appliances is deciding whether to make or buy certain key components required in the final product. The fixed cost for making the components in-house is Rs. 10,000 and variable cost is Rs. 2. If the company buys the component from a vendor, it incurs an annual fixed cost of Rs. 8000 and a variable cost of Rs. 2.5 per unit. The consumer appliance is expected to garner a demand of 25000 units per year. From the information given identify:

- i) What is the break-even quantity? (5)
- ii) What will be the company's decision: make or buy? (5)

b. FOR THE FOLLOWING DATA:

	X	Y
MEAN	36	85
STANDARD DEVIATION	11	8

Correlation coefficient between x and y = 0.66

- i) Find the two regression equations. (5)
- ii) Find the value of Y when X=46. (5)

2/2