

**SVKM'S NMIMS UNIVERSITY  
SCHOOL OF DISTANCE LEARNING**

PROGRAM (Semester): DBM(II)/ PGDBM(II)/ DMM(II)/ PGDMM(II)/ DFM(II)/ PGDFM(II)/  
DHRM(II)/ PGDHRM(II)

**Subject: Management of Machines & Materials**

**Date: 31-05-2009 (11.00 a.m. – 2.00 p.m.)**

**Marks: 100**

**Time : 3 hrs**

**Instructions:** Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

**NB**

1. Answer to each new question to be started on a fresh page.
2. Attempt any two questions from Q. No. 1, Q. No. 2 and Q. No. 3 (**Marks: 25 X 2= 50**)
3. Attempt any one question from Q. No. 4 and Q. No. 5 (**Marks: 20**)
4. Q. No. 6 is compulsory (**Marks: 30**)

**Qu. no. 1.** Define 'Operation Management' and the system concept in it. What are the objectives in Operation Management. Explain the 'Decision making Process' in Operation Management With particular reference to the Framework of Planning, Organizing and Control decisions in Production systems.

**Qu. No. 2 (a)** Explain the 'Product Selection process' in detail including the Product development, design And Innovation.

**(b)** What are the factors to be considered for the 'Plant Location'. Elaborate on the various Methods of plant locations including Break even analysis, factor rating etc.

**Qu. No. 3.** Define the 'project management'. Explain in detail the Network diagram including the 'CPM' And 'PERT'. Elaborate the time-cost relationship and crashing and resource allocation.

**Qu. No. 4 . (a)** Explain in detail the Operation Planning and Control of the 'Mass Production' including Line balancing.

**(b)** Explain the 'Maintenance Management System' in detail.

*Contd.*

**Qu. No. 5 (a)** Elaborate on the Purchase management system and procedures including Vendor selection  
And Rating.

**(b)** Describe the 'Inventory management' system in detail including the selective inventory  
Management and various inventory models.

**Qu.no.6 .** Write Short notes

- a. Capacity Planning.
- b. Job design.
- c. Methods Study.
- d. Value Engineering.
- e. Quality management.

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