

CODE NO: R7-22004/MBA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MBA-II Semester Supplementary Examinations February -2010

PRODUCTION & OPERATIONS MANAGEMENT

Time:3hours

Max.Marks:60

Answer any Five questions
All questions carry equal marks

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- 1.a) Discuss briefly about the skills and knowledge needed to become a successful operation manager?
- b) Discuss the major difference between the production of goods and the production of services?
- 2.a) What four elements of product design are commonly used to improve the design? Explain.
- b) Explain at least three major benefits provided by a CAP system to the designers?
- 3.a) Explain the procedure to be followed in designing an efficient functional layout?
- b) What are the key factors to be considered in facility location decisions? What are the advantages of making facility location decision in multiple stages?
- 4.a) Suppose a company is considering two alternative levels of capacity expansion. Is the one with the lower break-even point the better alternative? Why or why not? Explain.
- b) What is the difference between an aggregate plan and a master production schedule?
- 5.a) Explain how a Johnson's rule minimizes makespan in a two-stages problem?
- b) Four different jobs can be done on four different machines. The matrix below gives the cost in rupees of producing jobs I on machine J. Find the optimal way of assigning the jobs to machine.

Jobs **Machines**

	M1	M2	M3	M4
J1	5	7	11	6
J2	8	5	9	6
J3	4	7	10	7
J4	10	4	8	3

- 6.a) What is the difference between job enlargement and job enhancement?
- b) When should work sampling be used instead of motion and time study? Give a specific example.
- 7.a) Explain the concept of total productivity model?
- b) Difference between productivity engineering and management.
- 8.a) Day: : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
No.of defective : 9 10 12 8 7 15 10 12 10 8 7 13 14 15 16
Blades
Draw the relevant control chart and comment on the process.
- b) Draw an OC curve. Show its region. Discuss its characteristics.