

M.Tech.

## OPERATIONS MANAGEMENT

SUBJECT CODE : IE - 503Paper ID : [E0603]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 100

## Instruction to Candidates:

- 1) Attempt any Five questions.
- 2) All questions carry equal marks.

Q1) Discuss the various stages involved in satisfying customer's need. Compare the manufacturing and service operations.

Q2) What steps would you take to make a design simple. Discuss the evaluation of alternative product designs.

Q3) (a) What are the factors that influence the choice of location of a production unit. Discuss.

(b) A manufacturer wants to ship 8 loads of his product as shown in the following table. The matrix gives the distance from origin to destination.

	A	B	C	Available
X	50	30	220	1
Y	90	45	170	3
Z	50	200	50	4
Required	3	3	2	

Shipping costs are Rs.10 per load per km. What shipping schedule should be used.

Q4) What are the different aspects of capacity planning. Discuss the strategies for modifying capacity.

Q5) Discuss the need of maintenance planning for a productive system and distinguish between short term and long term maintenance policies.

Q6) What is codification. Discuss relative merits and demerits of alphabetical, numerical and decimal system of codification. Can any two of three be combined for better results? Explain.

Q7) What steps would you take to determine the purchase price? What methods would you adopt for the purpose? Explain.

Q8) Write notes on :

(a) Quality Circles.

(b) Waste Management.

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	Available	C	B	A
X	1	250	30	50
Y	2	150	45	90
Z	4	20	200	20
Required	3	2	3	3