

Roll No.

Total No. of Page : 3

BT-5/D11 : 7733

ME-307E : Industrial Engineering

Type : Three Hours

Maximum Marks : 100

Note:- Attempt five question, selecting at least one question from each unit.

UNIT - I

- Q.1. a) What is Performance rating? How it can be determined? 10
 b) Explain the basic procedure of method study. 10

- Q.2 a) Explain method study charts. 10
 b) State the objectives of work study 4
 c) Explain the method of setting time standard. 6

UNIT - II

- Q.3 Describe the various types of organization. States their advantages and disadvantages. 20

- Q.4 a) Describe the various product characteristics. 12
 b) What is meant by loading and scheduling? Give examples. 8

7733

1

Contd.

UNIT - III

- Q.5 a) Describe moving average method. 8
 b) The semi annual sales of a firm for a given item during the past four years have been as follow:

Year	Semi annual period	Sales(1,000)units
1	1	3.2
	2	4.5
2	1	2.9
	2	4.1
3	1	2.5
	2	3.8
4	1	2.2
	2	3.4

Perform time series analysis to Obtain semi annual sale for fifth and sixth year. 12

- Q.6 a) Describe the relevant factors affecting inventory control. 12
 b) The rate of use of an item is 25 units per year. cost of placing and receiving an order is Rs. 50. Cost of each item is Rs. 125. The cost of carrying inventory in percent per year is 0.20. Determine:
 i) Economic order quantity.
 ii) Order point if lead time is 3 months. 8

UNIT - IV

- Q.7 a) Explain life cycle of a Product. 12

- b) What is supply chain management? Describe its benefits and areas of applications. 8

Q.8 Write short notes on any four of following:

- i) Ways of saving time
 - ii) MRP - II
 - iii) Importance of ergonomics
 - iv) Matrix method
 - v) Mis conception about JIT
- 5x4