## AR22

Code: 22MBA2004 SET-2

# ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

### I MBA II Semester Regular Examinations, June, 2023 OPERATIONS MANAGEMENT (MASTER OF BUSINESS ADMINISTRATION)

Time: 3 Hrs Max. Marks: 60

#### Answer any Five questions All questions carry EQUAL marks Question No. 8 is Compulsory

1. Explain various types of production systems with merits and demerits. 12M

2. What are the factors affecting Plant location. Explain the factors to be considered for selecting a location for a chip manufacturing industry.

3. A company is planning to sequence the operations for witch in the timings of each operation on each machine is given in this table:

Machine/Operation	A	В	С	D
Machine-1	9.0	10.0	12.0	14.0
Machine-2	7.0	8.0	5.0	10.0

Find the sequence of operations and calculate the total elapsed time.

4. What is aggregate planning? Explain inventory control techniques. 12M

5. What do you mean by work measurement? What are the different steps in making a time study?

6. Write a short notes on 12M

- a. Difference between Manufacturing and Services
- b. LOB. c. Gantt Chart d. MRP
- 7. a) TQM. Explain how do you implement TQM in an Educational Institution. 6M
  - b) Briefly explain control charts by attributes. 6M

#### 8. CASE STUDY: 12M

A Company uses 1200 units per month of an electronic component each costing Rs.2/-. Placing each order costs Rs.50/-. And the carrying cost is 6% per year of the average inventory.

- i) Find EOQ
- ii) If the company get 5% discount if it places single order, should they accept the discount offer?