**[21004]**
# SPECIAL DRIVE - DEC - 2022
## M.B.A. DEGREE EXAMINATIONS
### SECOND SEMESTER
### Paper - IV : OPERATIONS MANAGEMENT
*(2016-17 and 2017-18 Admitted Batches)*

**Time : 3 Hours**                                    **Maximum Marks: 75**

### SECTION - A

**I.**    **Answer any FIVE questions not exceeding one page each.**       **(5×4=20)**

     1.    Role of production and Operations manager.

     2.    Aggregate planning.

     3.    Job order manufacturing.

     4.    Facility location.

     5.    Material Handling principles.

     6.    Method study.

     7.    ISO 9000

     8.    JIT

### SECTION - B

**II.**    **Answer ALL the questions not exceeding 4 pages each.**       **(5×8=40)**

     1.   a)    Examine the nature and scope of Production and Operations Management.

                        **(OR)**

        b)    Outline the differences between Manufacturing and Service Operations.

     2.   a)    Evaluate the need and importance of Industrial safety.

                        **(OR)**

        b)    What are the stages involved in Production Planning and Control?

     3.   a)    Elucidate the factors which are influencing Plant Location.

                        **(OR)**

        b)    Explain about different types of Layouts.

4. a) What are the factors which are affecting productivity?

**(OR)**

b) What is meant by Job Design? What is the process involved in job design?

5. a) Examine the advantages and disadvantages of EOQ method.

**(OR)**

b) Explain the need and importance of application of computers in production and operations.

**SECTION - C**

**(Case Study)**

**(compulsory)**

**(1×15=15)**

III. TFG company uses 25,000 Nos. of a component per year. It costs Rs.100 to place and receive an order and carrying cost is 30% of unit price. The supplier quotes the following prices for the component.

| Quantity | Unit Price (Rs.) |
|---|---|
| 0 to 499 | 21.60 |
| 500 to 999 | 20.95 |
| 1,000 and above | 20.90 |

i) What is the optimal order quantity?

ii) What is the minimum total cost.

iii) How much time will elapse between orders?

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