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1750

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, April/May 2012
(2008 Scheme)**

08.806.14 : PRODUCTION AND OPERATIONS MANAGEMENT (MPU)

Time : 3 Hours

Max. Marks : 100

- Note :** 1) Answer **all** questions from Part – A.
2) Answer **one full** question from **each** Module in Part – B.

PART – A

Write notes on the following :

1. Long term demand forecasting
2. Economic ordering Quantity
3. Danger Stock
4. Production Planning and Control
5. Plant layout
6. Lay art design
7. Just in time
8. Business Process Re-engineering
9. Capacity Planning and Control
10. Master Production Schedule.

(10x4=40 Marks)

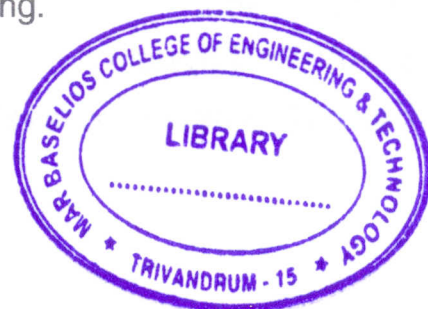
**PART – B
Module – 1**

11. a) Explain the basic model for demand forecasting.
- b) Explain inventory systems under risk.

8

12

OR



P.T.O.



12. a) A company is planned to sell 24000 units of a product for the next year. It is expected that the ordering cost is Rs. 50 per order and the carrying cost per unit per year is 20%. The purchase price per unit is Rs. 40.

Calculate :1) No. of orders Per Year

2) E.O.Q. and

3) Time lag between Successive orders.

10

- b) What is Economic batch quantity ?

Calculate EBQ From the following :

$C_o = \text{Rs. } 100 \text{ Per setup}$

$C_a = \text{Rs. } 10 \text{ Per unit/year}$

$r = 12000 \text{ units/year}$

$K = 24000 \text{ units/year}$

10

Module – 2

13. a) How do you design the layout of a factory with respect to office and storage area ? 10
- b) Distinguish between product layout and combined layout. 10

OR

14. a) Explain the concept of systematic layout planning. 10
- b) Discuss computer applications in layout designs. 10

Module – 3

15. a) Explain the various methods of aggregate planning. 12
- b) Discuss management and maintenance of MPS. 8

OR

16. a) Write short notes on :

1) Scheduling

2) Just in time

3) KANBAN System.

10

- b) Explain Business Process Engineering. 10

