

Reg.No:.....

Name :.....

Eighth Semester B.Tech.Degree Examination, April/May 2017

(2013 Scheme)

**13.806.8 PRODUCTION AND OPERATIONS MANAGEMENT (MPU)**

Time: **3 Hours**

Max.Marks:**100**

Instructions: 1) Answer all Questions in Part-A

2) Each Question in **Part-A** carries **2 marks**

3) Answer **any one** full question from each module in **Part-B**

4) Each full **question** in **Part-B** carries **20 marks**

**PART A**

1. What is the Significance of Demand Forecasting?
2. What is the disadvantage of Weighted Average Forecasting method?
3. Briefly explain the term Safety stock in inventory Management
4. Discuss the use of Exchange curves in inventory management
5. What is meant by a Fixed Position Layout?
6. Write short note on ALDEP
7. Illustrate the Purpose of aggregate Plans in an organization
8. Explain the term Bill of Materials
9. List the Advantages of Just in Time Production
10. Discuss the characteristics of Business Process Re engineering

**(P.T.O)**

**PART B**

Module-1

11. a) Explain forecasting Error and list out the measures of forecasting accuracy

8

b) Estimate the sales for the year 1998 from the following data using linear regression

Year	1991	1992	1993	1994	1995	1996
Sales (Crores)	20	30	35	40	38	47

12

**OR**

12. a) List out the assumptions made for Basic inventory model with Instantaneous Replenishment

8

b) Derive an expression for Economic Order Quantity for the Basic inventory Model

12

Module -2

13. a) Explain the factors to be considered for selecting the site of a plant

10

b) How a product layout differs from a Process lay out?

10

**OR**

14 a) What is meant by systematic Layout Planning and explain the steps involved in it?.

20

**(P.T.O)**

### Module -3

- 15.a) Explain the objectives of Aggregate Planning 8
- b) Discuss the functions of Master Production Schedule 12

**OR**

- 16 a) Explain the Objectives of Material Requirement Planning 8
- b) Explain the activities of MRP-II 12

### Module-4

- 17 a) Explain the Process of Capacity Planning 10
- b) Explain the functioning of a KANBAN system 10

**OR**

- 18 a) Explain the priority rules for Job sequencing 10
- b) Compare the forward and backward job scheduling processes in industries 10