



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, November 2015
(2008 Scheme)**

08.806.14 : PRODUCTION AND OPERATIONS MANAGEMENT (MPU)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **four** marks.

1. Write the significance of regression method in forecasting.
2. Discuss about inventory systems under risk.
3. Explain the contexts where multi item forecasting used.
4. Discuss briefly about different safety stock policies.
5. What are the advantages of combination layout ? Explain.
6. Explain the procedural steps in ALDEP.
7. Elucidate the significance of dispatching.
8. Discuss about the chase strategy in aggregate planning.
9. Distinguish between MRP I and II.
10. Explain briefly about business process reengineering.





PART – B

Answer **one full** question from **each** module. **Each** sub question carries **ten** marks.

Module – I

11. a) Using the following data estimate the smoothed forecast. Assume smoothing parameter as 0.65 and first year forecast error as +6.

| Year | Demand | Forecast |
|------|--------|----------|
| 2 | 40 | 44 |
| 3 | 46 | 46 |
| 4 | 58 | 56 |
| 5 | 60 | 59 |
| 6 | 64 | 65 |
| 7 | 70 | 69 |

- b) Discuss the important time series projection methods.

OR

12. a) Develop a model for the joint determination of Q and R.
b) Discuss the inventory model for multi product joint order case.

Module – II

13. a) Explain the layout design procedure for offices.
b) List out and explain the general equipment amenities for working people.

OR

14. a) Explain one common routing algorithm.
b) Explain different types of computer aided layout designs.

Module – III

15. a) Explain in detail about capacity planning.
b) Discuss the contents and working of Kanban systems.

OR

16. a) Discuss in detail about ERP systems.
b) Explain the priority rules for dispatching job.