

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER-II • EXAMINATION – SUMMER 2015

Subject Code: 2722810**Date: 01/06/ 2015****Subject Name: Production & Operation Management****Time: 2:30-5:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Define Operations management. Explain the key concepts of Operations management. **07**
- (b)** Classify Production system. Explain any one in detail. **07**
- Q.2 (a)** Which factors causes line balancing problem? Write steps to solve line balancing problem. **07**
- (b)** Explain factors affecting make or buy decision. **07**
- OR**
- (b)** What are functional aspects of make or buy decision. **07**
- Q.3 (a)** Explain main function of Production Planning and Control. **07**
- (b)** What are Aggregate Planning and Master Scheduling? Explain Aggregate Planning strategies. **07**
- OR**
- Q.3 (a)** Explain need of Production Planning and Control with objectives. **07**
- (b)** What are the major inputs to Master schedule? What determines the planning horizon length of Master schedule? **07**
- Q.4 (a)** Explain objectives of maintenance. Explain cost associated with maintenance. **07**
- (b)** Explain preventive maintenance system. Differentiate it with breakdown maintenance. **07**
- OR**
- Q.4 (a)** Explain various types of maintenance with their relationship. **07**
- (b)** Explain condition based maintenance with its benefit. **07**
- Q.5 (a)** Classify inventory models. Explain any one inventory model. **07**
- (b)** Explain basic elements of Just in Time. **07**
- OR**
- Q.5 (a)** What is inventory control? What is objectives and benefits of inventory control? **07**
- (b)** Explain Just in Time system of manufacturing with diagram. **07**
