

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019****Subject Code: 2182501****Date: 27/11/2019****Subject Name: Production and Operations Management****Time: 02:30 PM TO 05:00 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 Production and Operation Management **03**  
(b) Briefly discuss about Make or Buy Decision. **04**  
(c) List and briefly discuss different phases of production planning and control. **07**
- Q.2** (a) Enlist various methods of demand forecasting. **03**  
(b) What are the factors affecting forecasting. **04**  
(c) What are the types of Demand Pattern? Explain them with suitable sketch. **07**
- OR**
- (c) Discuss Drum-Buffer-Rope concept. **07**
- Q.3** (a) Briefly discuss three broad objectives of material Management **03**  
(b) What are the objectives of line balancing? **04**  
(c) Discuss the steps of RPW method for line balancing. **07**
- OR**
- Q.3** (a) List advantages and disadvantages of Level Production Strategy. **03**  
(b) Discuss the objectives of *Material Management* in an organization. **04**  
(c) List and explain various pure strategies and mixed strategies. **07**
- Q.4** (a) List various sequencing techniques for sequencing of jobs on single machine. **03**  
(b) Discuss objectives of Operation Scheduling. **04**  
(c) Explain the difference between infinite and finite scheduling **07**
- OR**
- Q.4** (a) Explain fixed cost and variable cost. **03**  
(b) Discuss the role of forecasting in capacity requirement planning. **04**  
(c) Discuss the process of vendor rating. **07**
- Q.5** (a) List Various functions of Process Planning. **03**  
(b) What is the difference between a trend and a cycle and a seasonal pattern? **04**  
(c) Discuss the concept of Selective Assembly **07**
- OR**
- Q.5** (a) Define tracking Signal. How it is different from forecast control limits? **03**  
(b) Discuss various objectives of Aggregate Production Planning **04**  
(c) Discuss Break-Even Analysis with suitable example. **07**

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