

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MBA– SEMESTER –III-EXAMINATION – WINTER-2023**

**Subject Code:4539273****Date: 07-12-2023****Subject Name: Production Planning and Control****Time:10:30 AM TO 1:30 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

**Q.1 Short Questions****(14)**

- (a) Bill of Materials
- (b) Aggregate planning
- (c) Demand Forecasting
- (d) Batch production
- (e) Assembly line balancing
- (f) Design Capacity
- (g) Mass production

**Q.2(a)** What is facility layout planning? Discuss different types of facility layout.**(7)****Q.2(b)** What do you understand by Production Planning and Control? Discuss its main elements.**(7)****OR****Q.2(b)** What is material requirement planning. Discuss the objectives of Material requirement planning.**(7)****Q.3(a)** Give your comments on the given statement. "Plant layout involves, besides grouping of machinery, an arrangement of other facilities also"**(7)****Q.3(b)** What is forecasting. Discuss different quantitative and qualitative methods of forecasting.**(7)****OR****Q.3(a)** Differentiate between short term forecast, intermediate term forecast and long-term forecast.**(7)****Q.3(b)** What is capacity planning? Describe different types of capacity with examples.**(7)****Q.4(a)** What is Scheduling? Explain different principles of scheduling with the help of an example.**(7)****Q.4(b)** What is the importance of industrial safety? Discuss about some safety equipment's used in the companies.**(7)****OR****Q.4(a)** What is the importance of maintenance management in PPC? Discuss about different types of maintenance management.**(7)****Q.4(b)** Discuss material handling principles and classify material handling equipment.**(7)**

**Q.5** You are appointed as a production manager of ABC company LTD which is manufacturing Aircraft parts under the make in India concept. Answer the below mentioned questions with respect to same.

(a) Which are the different types of production systems which you as a manager needs to consider. Explain all of them with examples. (7)

(b) Which are the different stages of production planning and control which you as a manager has to consider before starting the new project for your ABC company. Discuss all of them. (7)

**OR**

(a) How you will do material requirement planning for your ABC company Ltd. and which are the objectives of MRP? (7)

(b) Which are the different industrial safety norms and safety equipment's which you need to follow as a production manager for the safety of your employees. (7)

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