



**B.Tech VIII Semester Regular/Supplementary Examinations, April 2023**

**Production Planning and Control**

(Mechanical Engineering)

**Maximum Marks: 70**

**Date: 03.05.2023 Duration: 3 hours**

**Part-A**

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 Mention any two benefits of Production Planning and Control.
- 2 What is mean absolute percent error of forecast?
- 3 What is MRP II?
- 4 Define EOQ.
- 5 Compare Takt time and Lead time.
- 6 How do you calculate ranked positional weight?
- 7 What is a master production schedule?
- 8 List the various charts used in line-of-balance analysis.
- 9 Mention the types of dispatching.
- 10 Define expediting.

**Part-B**

Answer All the following questions.

(5X10M=50Marks)

- 11 Discuss the different functions of production planning and control. (10)  
OR
- 12 (a) Compare the types of production systems. (5)  
(b) Describe the various factors affecting the forecast. (5)
- 13 Discuss the concept, characteristics and various elements of JIT manufacturing. (10)  
OR
- 14 Describe ABC analysis and its significance in inventory control. (10)
- 15 Describe the important steps involved in the procedure of routing. Also add a note on route sheet. (10)  
OR
- 16 (a) Discuss the significance of line balancing in industries. (5)  
(b) Add a short note on heuristic method of balancing. (5)
- 17 Explain the steps to be followed in LOB technique. (10)  
OR
- 18 Give a detailed account of flow production scheduling and job shop scheduling. (10)
- 19 What are the functions of dispatching? Explain the various documents raised. (10)  
OR
- 20 Give an account of various modules in computer aided production planning and control. (10)