

Code No: 138GR

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, September - 2020

PRODUCTION PLANNING AND CONTROL

(Common to CE, ME, PTM)

Time: 2 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Explain the various objectives of production Planning and Control (PPC).
- b) What are the various types of production systems? Explain where each one of them would be applied. [7+8]
- 2.a) What are the functions of inventory?
- b) A company uses 10000 units per year of an item. The purchase price is Rs.1 per item. The ordering cost is Rs.25 per order. The carrying cost per year is 12% of the inventory value. Find
 - i) The EOQ
 - ii) The number of orders per year
 - iii) If the lead time is 4 weeks and assuming 50 working weeks per year, find the reorder point. [7+8]
3. How route sheets are prepared and outline its uses? [15]
4. What is Line of Balance? Explain the procedure for line of balance study. [15]
- 5.a) What do you understand by “job tickets” with reference to dispatching?
- b) Differentiate between centralized dispatching and decentralized dispatching. [7+8]
6. Explain about quantitative and qualitative forecasting techniques. [15]
- 7.a) Distinguish between MRP I and MRP II.
- b) Discuss about the importance of transportation model. [7+8]
8. Enumerate the need and importance of application of computers in planning and control. [15]

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