

IV / II - 09 - 3su - MECH

R09

Code No: 58015

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, May - 2016

PRODUCTION PLANNING AND CONTROL

(Mechanical Engineering)

Time: 3 Hours

Max. Marks: 75

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

- 1.a) Explain the relationship between 'production', 'planning', and 'control' describe briefly the three phases of PPC.
- b) Distinguish between the continuous and intermittent production systems. [8+7]
- 2.a) Define sales forecasting and List out the methods of sales forecasting.
- b) Forecast demand for March was 950 units, but actual demand turned out to be only 820. If the firm is using a simple exponential smoothing technique with $\alpha = 0.2$, what is the forecast for April? [5+10]
- 3. Sainath keeps his inventory in special containers. Each container occupies 10 sq. ft. of store space. Only 5000 sq. ft. of 9000 containers priced at Rs. 8 per container are available. The ordering cost is estimated at Rs. 40 per order, and the annual carrying cost amounts to 25% of the inventory value. Would you recommend Sainath to increase his storage space? If so, how much should it be increased? [15]
- 4.a) What are the prerequisites (or inputs) for MRP implementation? Explain.
- b) What do you understand by term Japanese Concept? Explain it briefly. [7+8]
- 5.a) How route sheets are prepared and what are their uses?
- b) What information is contained in the BOM file? [8+7]
- 6.a) What do you understand by "no-work" pay guarantee policy? Discuss its merits and demerits.
- b) List out and explain various scheduling policies (at least four) and give their merits and demerits. [8+7]
- 7.a) What are the different methods of aggregate planning? List out the guidelines for aggregate planning?
- b) How does Chase planning differ from expediting? [8+7]
- 8.a) Differentiate between centralized dispatching and decentralized dispatching.
- b) Describe the follow-up or control phase of PPC. [8+7]

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