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Code No: 09A80301

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, July - 2014

PRODUCTION PLANNING AND CONTROL

(Mechanical Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions  
All Questions Carry Equal Marks

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- 1.a) What are the aims and objectives of production planning and control?
- b) Define production. What are the types of production? Explain their advantages and disadvantages.
  
- 2.a) Discuss the factors which affects the choice of forecasting method.
- b) Given an old forecast of Rs 350 lakhs initially, compute the difference between  $\alpha = 0.5$  and  $\alpha = 0.10$  for the following series of 10 observations of sales of a company (All figures are in lakhs).  
390, 390, 320, 370, 340, 330, 380, 340, 390, 310
  
- 3.a) What is the objective of inventory control? What types of costs have to be considered to control inventory?
- b) Distinguish between 'fixed order quantity' and 'fixed order period' systems of inventory control.
  
- 4.a) What do you mean by MRP? State objectives of MRP. Explain MRP system components.
- b) Write short note on JIT inventory.
  
- 5.a) Define routing. Explain the factors responsible for proper routing.
- b) How route sheets are prepared and what are their uses?
  
- 6.a) Explain in detail different types of scheduling.
- b) Distinguish between the job shop and floor shop scheduling.
  
7. Write short notes on:
  - a) Chase planning
  - b) Expediting and
  - c) Control aspects
  
- 8.a) Explain the dispatching rule. What are the activities of dispatcher?
- b) Discuss in detail the procedure involved in dispatching.

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