

Code No: 09A80301

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, April - 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 functions and importance of PPC? Explain briefly.
- b) Distinguish between continuous production and batch production.
- 2.a) Enumerate the factors involved in forecasting.
- b) Discuss briefly the various methods of forecasting demand and point out their limitations. What is the criteria of a good forecasting method?
- 3.a) Derive an expression for economic order quantity. State clearly the assumptions made.
- b) Explain the ABC control policy.
- 4.a) Describe the MRP process, including netting, exposing and time phasing.
- b) Explain the various steps of line of balancing technique.
- 5.a) Explain clearly the routing procedure.
- b) "Routing and scheduling are so interrelates that they cannot be undertaken independently if they are to be done well". Give your comment on the statement.
- 6.a) Define scheduling. State objectives and advantages of scheduling.
- b) Write short note on
  - i) Main machine chart
  - ii) Gant Chart
- 7.a) List the methods of line balancing. Explain any two of them in detail.
- b) Discuss the various costs involved in aggregate production planning.
- 8.a) What is the purpose of Follow up? Explain different types of follow up.
- b) Describe the following forms used in dispatching.
  - i) Move order
  - ii) production ticket.

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