

**Code No: 156CQ****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, August - 2022****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) Define production planning and control. List out various objectives of Production Planning and Control and brief on types of production system.  
b) Evaluate MRP and JIT systems in inventory control. [10+5]
- 2.a) Define forecasting, explain various factors affecting the forecasting and discuss the methods of demand forecasting.  
b) Write brief on scheduling techniques in production system. [10+5]
- 3.a) What do you mean by EOQ? Explain the principle of basic EOQ model.  
b) Write brief on functions of inventories. [10+5]
4. Define aggregate-planning and explain transportation model with the help of an example. [15]
- 5.a) What is line balancing? List out various benefits and methods of line balancing.  
b) Write brief on Heuristic method. [10+5]
6. What do you mean by rout sheet? Explain various factors affecting routing procedure, Route Sheet. [15]
- 7.a) Define scheduling. Explain various types of scheduling methods.  
b) Examine the scheduling policies. [10+5]
8. Define follow up. Explain various expediting procedures and their applications in planning and control. [15]

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