

Code No: 156CQ**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, February/March - 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) Explain in detail various functions of production planning and control.
b) Define forecasting and brief on various forecasting techniques in detail. [8+7]
2. Examine the types of production systems and describe the measures of forecasting errors. [15]
- 3.a) Define inventory. Explain various functions of inventories.
b) Brief on aggregate planning methods. [7+8]
- 4.a) Explain the importance of ABC analysis with the help of an example.
b) Discuss about the transportation model. [7+8]
5. With the help of an example, explain the procedure of any two line balancing methods. [15]
6. Define routing. Explain the routing procedure in detail and discuss the factors affecting routing procedure. [15]
7. Explain the objectives of flow shop scheduling and job shop scheduling and steps involved in line of balance. [15]
8. Define dispatching. Explain various activities of dispatcher and dispatching procedures. [15]

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