

**III B.Tech II Semester Regular Examinations, April/May 2005**  
**PRODUCTION PLANNING & CONTROL**  
**(Mechanical Engineering)**

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) Explain in detail about Production Planning.  
(b) Explain the terms planning, operations and control.
2. Explain how the following two characteristics of a product help the manufacture to face the competition in the market.  
(a) Aesthetic aspect.  
(b) Functional aspect.
3. (a) Explain long term forecasting and short term forecasting.  
(b) Explain Delphi technique for forecasting.
4. (a) Define inventory. What are the advantages and disadvantages of having inventories?  
(b) ABC manufacturing company purchases 9,000 parts of a machine for its annual requirements, ordering one-month usage at a time. Each part costs Rs. 20. The ordering cost per order is Rs. 15, and the carrying charges are 15% of the average inventory per year. You have been asked to suggest a more economical purchasing policy for the company. What advice would you offer, and how much would it save the company per year?
5. (a) Define P - System ? When you recommend this for controlling inventory?  
(b) How is the reorder point determined ? What is the significance of the reorder points to the production manager ?
6. How do you prepare the Route Sheets? Draw the operation and Route sheets.
7. (a) What is scheduling? What are the different scheduling methods?  
(b) What is aggregate planning? Explain the pure strategies of aggregate planning?
8. (a) Give a specimen of Technological Route Card and explain.  
(b) Give the specimen of move card.

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