

IV B.Tech I Semester Regular Examinations, November 2005
PRODUCTION PLANNING & CONTROL
(Mechanical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the “Control” stage.
(b) Explain how to select best method of manufacture. [8+8]
2. List the common information and data contained in a process sheet. Explain briefly. [16]
3. Discuss various approaches in forecasting demand for new products. [16]
4. The demand for a product is 3600 units per annum. Inventory carrying cost is Rs.1.6 per unit per year. The ordering cost is Rs.800, Find EOQ, Optimal cycle time, optimal inventory cost. [16]
5. (a) What is the difference between Q-system and P-system.
(b) M/s. KOBO Bearing Ltd is committed to supply 24000 bearings per annum to M/s. Deluxe Fans on a steady daily basis. It is estimated that it costs 10 paise as inventory holding cost per bearing per month and the set up cost per run of bearing manufacture of Rs. = 324.
 - i. What should be the optimum run size for bearing manufacture ?
 - ii. What should be the interval between two consecutive optimum runs
 - iii. Find out the minimum inventory holding cost ? [4+12]
6. (a) Explain master scheduling with suitable example.
(b) Explain how graphs are useful for scheduling and control problems. [16]
7. (a) What is scheduling? What are the different scheduling methods?
(b) What is aggregate planning? Explain the pure strategies of aggregate planning? [8+8]
8. (a) Define follow up.
(b) What be the function of follow up section ?
(c) List the cause the follow up section trees to check up. [4+8+4]
