

IV B.Tech II Semester Supplementary Examinations, Apr/May 2006
PRODUCTION PLANNING AND CONTROL
(Mechanical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
 All Questions carry equal marks

1. (a) Define:
 - i. Production
 - ii. Production Planning
 - iii. Production Planning and Control
 (b) Write about the Principles of Production Planning and Control. [6+10]
2. List the Production / operations management problems and key decisions in day to day operations. Explain briefly. [16]
3. (a) Explain when judgmental techniques are used in forecasting.
 (b) Explain when casual forecasting method is used. [8+8]
4. (a) Explain how ABC analysis is useful in a foundry unit?
 (b) Explain how VED analysis is applicable for spare parts management? [8+8]
5. (a) Explain, in detail the procedural steps involved in MRP.
 (b) State and explain the functions served by MRP. [8+8]
6. (a) Explain the terms forward scheduling and backward scheduling.
 (b) Explain with a neat sketch how Gantt chart is used to show schedules. Explain the symbols used in drawing Gantt chart. [6+10]
7. (a) Define critical ratio.
 (b) Today is day 22 on production control calendar and 4 jobs are on order as shown. [4+12]

Job	Due date	Work day remaining
A	28	8
B	26	2
C	24	2
D	30	12

Determine the critical ratio for each job and assign priority ranks.

8. Briefly explain the difference types of follow up. [16]
