

2006 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**IV B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
PRODUCTION PLANNING AND CONTROL
(MECHANICAL ENGINEERING)**

APRIL/MAY 2006

TIME 3 HOURS
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.
2. List the Production / operations management problems and key decisions in day to day operations. Explain briefly.
3. (a) Explain when judgmental techniques are used in forecasting.
- (b) Explain when casual forecasting method is used.
4. (a) Explain how ABC analysis is useful in a foundry unit?
- (b) Explain how VED analysis is applicable for spare parts management?
5. (a) Explain, in detail the procedural steps involved in MRP.
- (b) State and explain the functions served by MRP.
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.
7. (a) Define critical ratio.
- (b) Today is day 22 on production control calendar and 4 jobs are on order as shown.

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.