B. Tech.
(SEM. VI) EXAMINATION, 2006-07
PRODUCTION PLANNING & CONTROL

Time : 3 Hours] [Total Marks : 100

Notes : (1) Do all the following questions.
(2) All questions carry equal marks.

1. Attempt any two of the following:
   (a) If one uses a no-trend model to forecast demand where a trend actually exists, what is the nature of the error that results?
   (b) How are social values important in location decisions? Explain for (i) manufacturing industry and (ii) service facilities location.
   (c) Distinguish between a process and product layout. Give an example of each.

2. Attempt any two of the following:
   (a) What is the meaning of the term aggregate plan? What are the inputs and the nature of outputs?
   (b) Discuss the statement ‘Installing MRP system tends to bring in an integration of the materials management, production management and other functions in the organization.

V–4104] 1 [Contd...
(c) Differentiate between loading and scheduling. In a clear-cut distinction between the two possible under all production situations? If so, where is it possible and where is it not possible?

3. Attempt any two of the following:
   (a) Differentiate between a push and pull production system.
   (b) Discuss the scope of ERP and difficulties in implementation.
   (c) Define an economic reorder cycle time. Why is it that organizations which use a periodic reorder policy may not actually use the economic cycle time?

4. Attempt any two of the following:
   (a) How are partial productivity measures inadequate in monitoring overall productivity of a firm?
   (b) If it takes just as long to perform a preventive maintenance operation as it does a repair, is there an advantage to preventive maintenance?
   (c) What are the objectives of study of ergonomics? Discuss its application on workplace design and working condition?

5. Attempt any two of the following:
   (a) What is capacity balance? Why is it hard to achieve? What methods are used to deal with capacity imbalances?
   (b) Describe the concept of the product life cycle? Is it applicable to services as well.
   (c) What is the difference between internal and external failure costs? Give examples of the cost of poor quality and the cost of quality assurance costs.