

**Total No. of Questions : 08**

**M.Tech.(ME) (Sem.-3)**  
**PRODUCTION PLANNING & CONTROL**  
**Subject Code : MME-523**  
**Paper ID : [E1046]**

**Time : 3 Hrs.**

**Max. Marks : 100**

**INSTRUCTION TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1.
  - (a) What do you expect out of Standardization of Products and Producers? Discuss with specific examples.
  - (b) Differentiate between Planning and Control. What is the objective of control of production?
2.
  - (a) What are the factors that shall be taken into account for Economic Analysis? Discuss.
  - (b) What is the impact of Three 'S' on the product acceptability of an enterprise? Discuss.
3. The demand of an item is 18000 per year. Production rate is 3000 units/month, the carrying cost is 0.15/unit/month and the set up cost Rs. 500 per set up. The shortage cost is Rs. 20,000 per unit per year. Find the following parameters :
  - (a) Economic Batch Quantity
  - (b) Maximum Inventory
  - (c) Maximum Stockout
  - (d) Cycle Time
4. What are the different types of inventories a manufacturing
  - (a) Organisation maintains? Explain with examples.
  - (b) Explain the Periodic System-(P System) of inventory management.

5. What are the elements in value analysis and how it  
  - (a) Is tested?
  - (b) What is FAST diagram? Develop a FAST diagram for Ball Point Pen.
6.
  - (a) How assignment model is used for loading?
  - (b) Explain the various scheduling strategies briefly.
7. What is 'Gantt Chart'? Explain its use in loading and  
  - (a) Scheduling
  - (b) What is Priority Sequencing? Explain.
8. Write short notes on :  
  - (a) Short and Long Range Planning
  - (b) ABC Analysis
  - (c) Material Utilisation