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**Total No. of Questions : 09**

**B.Tech. (Ind. Engg. & Mgt.) (Spl. in TQM) PT (Sem.-3)**

# OPERATIONS MANAGEMENT

**Subject Code : IEM-301**

**M.Code : 61011**

**Time : 3 Hrs.**

**Max. Marks : 40**

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt All EIGHT questions from SECTION-A carrying TWO marks each.
2. Attempt any SIX questions out of EIGHT from SECTION-B carrying FOUR marks each.

## SECTION-A

**1. Answer briefly :**

- a. Discuss the relationship of operations management with other functional areas of industrial management, giving examples.
- b. List and discuss the different location decision variables.
- c. What is meant by Systematic layout planning?
- d. Comment on the role of automated material handling equipment in today's businesses.
- e. Discuss the various strategies of aggregate production planning.
- f. What is the significance of a decision tree in capacity planning?
- g. Comment on the framework for material requirement planning.
- h. Discuss the basic procedures of production control systems.

### SECTION-B

2. Comment on the decision making process in production systems.
3. Discuss how has globalization affected the facility location decisions? Give examples to support your answer.
4. Discuss the various performance metrics for layout designs. How can effectiveness be determined for layouts?
5. Discuss the role of IT in layout designs. Justify your answer with examples.
6. Explain the various models of forecasting.
7. Discuss the various issues in capacity planning in a typical service industry.
8. Explain in detail the significance and various modules of ERP.
9. Comment on the modern / recent developments in manufacturing systems in India. Give examples in support of your answer.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**