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Total No. of Pages : 02

Total No. of Questions : 16

**B.Tech. (Ind. Engg. & Mgt. (TQM) (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) Differentiate between batch and continuous production systems.
- 2) Give the advantages of urban and rural locations.
- 3) Explain the concept of Group technology layout.
- 4) Give the factors that influence the selection of material handling equipment.
- 5) Investigate the need of forecasting in organizations.
- 6) State the differences between design capacity and rated capacity.
- 7) Explain master production schedule with the help of an example.
- 8) What do you understand by critical ratio in scheduling? Give example.

**SECTION-B**

- 9) Explain various functions of operations management.
- 10) What are the factors that influence the selection of location for a plant?
- 11) Elaborate various types of office layouts.

- 12) Differentiate between fixed path, flexible path and auxiliary material handling systems.
- 13) What is time series analysis? How the forecast is made from the time series?
- 14) Discuss the steps involved in capacity planning.
- 15) Investigate in brief the concept of ERP.
- 16) State the differences between routing, scheduling and dispatching.

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