

BT-5 / D-19

**INDUSTRIAL ENGINEERING****Paper-ME-307E Option-II**

Time allowed : 3 hours]

[Maximum marks : 60

Note:- Attempt a total of five questions by selecting only one question from each unit.

**Unit-I**

1. (i) Explain the procedure adopted for work study. 10
- (ii) Describe the principles of motion economy. 10
2. (i) Describe Performance rating and its objectives. 13
- (ii) Explain the following term:-
  - (i) PMTS (Pre determined motion time systems) 7
  - (ii) M.T.M.

**Unit-II**

3. (i) Distinguish between classical" organization theory and neo classical organization theory. 10
- (ii) Describe various types of organizations. 10
4. (i) Explain the process of routing. 10
- (ii) Explain the dispatching procedure and necessity for close control in dispatching activities. 10

**Unit-III**

5. Explain the following methods of sale forecasting:- 20
  - (i) Delphi technique

(2)

- (ii) Moving average method
- (iii) Economic indicator method.
6. (i) Describe economic order quantity. 8
- (ii) Differentiate the terms purchase lead time, reorder level and safety stock. 12

**Unit-IV**

7. (i) Discuss various incentive payment schemes. 10
- (ii) Discuss the techniques elements of MRP systems. 10
8. (i) Describe the methodology and techniques used in value engineering. 10
- (ii) Explain the concept of JIT with its application. 10