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B.Tech.(ME) (2011 Onwards) (Sem.-7,8)  
**INDUSTRIAL ENGINEERING AND MANAGEMENT**

Paper ID : [A3062]

**Max. Marks : 60**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

- (a) Define Industrial Engineering.
- (b) What are the major activities of management?
- (c) What system of layout will you recommend to the following :
  - i) Bicycle manufacturing unit
  - ii) Ship building unit
- (d) Name a few reputed industries of our country where the technique of work-study is being used actively.
- (e) Distinguish between production and productivity.
- (f) What do you understand by Value Analysis?
- (g) List the various charts for recording data.
- (h) Identify the basic elements of planning.
- (i) Identify the characteristics of organization.
- (j) What is Time Study?

**SECTION-B**

- Q2. What are the various roles of an industrial engineer in an industry?
- Q3. Explain the salient features of Douglas Mc-Gregor's Theory X and Theory Y.
- Q4. What is an organization chart? Explain the concept of span of control with reference to organizing.
- Q5. Identify and briefly describe the basic elements of control system with the help of a suitable example.
- Q6. Explain briefly the layout based on Group Technology (GT) and just in time (JIT).

**SECTION-C**

- Q7. Write short notes on :-
- a) Relation between work-study and productivity
  - b) Phases of Value Engineering.
- Q8. a) Discuss the various reasons of low productivity in industry.
- b) Describe the methods to improve productivity.
- Q9. Write short notes on :
- a) Work Sampling
  - b) Standard data Techniques.