

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech.(ME) (2011 Batch) (Sem.-7,8)**  
**INDUSTRIAL ENGINEERING AND MANAGEMENT**  
Subject Code : BTME-801  
Paper ID : [A3062]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

**SECTION-A**

**Q1) Write briefly :**

- a) Write the need of Work Study. Enlist its advantages.
- b) Define industrial engineering and write its scope.
- c) Define the terms GT and JIT.
- d) Define accountability.
- e) Define value engineering and value analysis.
- f) Write the functions of management.
- g) What is span of control?
- h) What are the different control parameters in management planning?
- i) What do you understand by rating factor?
- j) Define Method Study and Motion Study.

### SECTION-B

- Q2) Discuss the functions and benefits of production control system.
- Q3) What do you mean by management? Explain Taylor's scientific management in brief.
- Q4) Discuss the objective of line balancing. Give suitable example to illustrate line balancing.
- Q5) Write a detailed note on work sampling by explaining its procedure and applications.
- Q6) Differentiate between observed time, normal time and standard time.

### SECTION-C

- Q7) Write a note on **any two** of the following :
- a) Maslow's Hierarchy of human needs
  - b) Group Technology
  - c) Cellular Manufacturing Systems
- Q8) Discuss various types of plant layout in detail. Also enlist their advantages and limitations.
- Q9) Explain the main phases of value engineering studies. Also explain the purpose of each phase briefly.