

Total No. of Questions : 09

B.Tech.(ME) (E-I 2011 Onwards) (Sem.-6)

INDUSTRIAL ENGG.

Subject Code : DE/ME-2.1

Paper ID : [A2412]

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

SECTION-A

Q1 Answer briefly :

- How are industrial engineering principles beneficial for manufacturing organizations?
- Enumerate the Services Industrial Engineers provide in an organization.
- Define plant layout.
- Explain the relationship of material handling with plant layout.
- What do you understand by GT layout?
- Enumerate the areas of applications of work study in industry.
- Explain the reaction of labour to work study.
- Define value engineering.
- Enumerate the applications of PMTS.
- How does work study improve safety at workplace?

SECTION-B

- Q2 Describe the qualities the Industrial engineer should possess.
- Q3 Explain the steps involved in calculation of standard time.
- Q4 Describe the procedure followed in work place design.
- Q5 How various material handling equipment can be classified? Explain.
- Q6 Describe the steps involved in value engineering studies. Also enumerate the applications of value engineering.

SECTION-C

- Q7 What do you understand by product layout? Describe the salient features, advantages, limitations and applications of product layout.
- Q8 a) Give brief introduction to method study and work measurements and also describe their inter-relationship.
- b) Explain three types of industrial trucks used in manufacturing industries giving their salient features and applications.
- Q9 a) Describe the functions of industrial engineering department in an organization.
- b) Discuss the principles of micro-motion and macro-motion study.