

CT Inst. of

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (ME) (Sem.-6th)**INDUSTRIAL ENGINEERING**

Subject Code : DE/PE-2.1

Paper ID : [A0825]

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**I. Answer briefly :**

- a. Define micromotion study.
- b. List the various types of allowances given for calculating standard time.
- c. Define the term "Ergonomics".
- d. Under what conditions is GT layout appropriate?
- e. Sketch a typical layout of an automobile repair shop.
- f. Discuss the factors affecting the location of a nuclear plant.
- g. "Value Engineering is a powerful cost reduction tool", justify.
- h. Contrast job enrichment and job enlargement.
- i. Define 'Standard Time'.
- j. State principles of motion-economy as related to human body.

SECTION-B

2. Differentiate between quantitative and qualitative
3. Discuss the procedure for PMTS as applied to ti
4. Explain mean, mode, standard deviation, average used in work sampling.
5. Elaborate the role of work study in improving safety.
6. Define motion study. State the different charts w motion study.

SECTION-C

7. Explain in detail the objectives and procedure for
8. Differentiate between GT, JIT and Cellular manu
9. Write short notes on the following :
 - (a) Chronocyclegraph.
 - (b) Performance Rating Factor.

