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Total No. of Questions: 09

B.Tech.(ME) (2012 Onwards E-II) (Sem.-7) INDUSTRIAL ENGG.

Subject Code: DE/PE-2.1 M.Code: 72007

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 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

1. Answer briefly:

- (a) Define Industrial Engineering. What is its importance?
- (b) What are the principles of plant layout?
- (c) What are the components of work study?
- (d) Why the job as a whole cannot be timed?
- (e) Define time study and explain its objective.
- (f) List the applications of work sampling.
- (g) What are Therbligs? When it is used?
- (h) What do you understand by work design?
- (i) Define ergonomics and what its objectives are?
- (j) Write a brief comment on the following:

"What the value engineering is and what it is not".

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SECTION-B

- 2. Explain the significance, construction and application of multiple activity chart and Two-handed process chart.
- 3. Explain the various tools and techniques of plant layout.
- 4. Explain the work study procedure. Write short note on work study and supervisors.
- 5. Explain the effect of following on standard time:
 - (a) Skill of the operator
 - (b) Pace of performance
- 6. Explain the FAST with respect to value engineering.

SECTION-C

- 7. Write short notes on:
 - (a) Organization structure for Industrial Engineering.
 - (b) Industrial Engineering in service sector.
- 8. (a) Explain the concepts of job enlargement and job rotation.
 - (b) Discuss the technological and behavioural factors for an effective job design .
- 9. (a) How anthropometric data is used in design?
 - (b) Write a note on design of information display.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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