

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ME) (E-I 2012 Onwards) (Sem.-6)

INDUSTRIAL ENGG.

Subject Code : DE/ME-2.1

M.Code : 71253

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**1. Answer briefly :**

- a) What is the scope of industrial engineering to boost up Indian economy?
- b) What do you mean by Plant Layout?
- c) Write about Work Measurement in brief.
- d) What are the objectives of Method Analysis?
- e) Write about the term 'Basic Time' used for Work Measurement.
- f) What is the concept of Value Engineering?
- g) What do you mean by Job Enrichment in work Design?
- h) Define the term 'Maintain' in method study.
- i) What do you mean by the term Ergonomics?
- j) What is the use of JIT technique in an Industry?

SECTION-B

2. Write in detail the qualities of an Industrial Engineer.
3. Write in detail the types of material handling equipments used in an Industry.
4. Write in detail the Principles of Motion Economy.
5. Explain in detail about Method Study & Work Measurement techniques, comment on their inter-relationship behavior also.
6. Write in detail about effective job design considering technological & behavior factors.

SECTION-C

7. Explain the following terms :
 - a) Time Study
 - b) Work sampling
8. Explain in detail the application of value engineering in industry.
9. Justify, how Ergonomics supports in designing of Man-Machine systems with special reference to design of displays & controls.

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.