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Total No. of Questions: 18

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

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly:

- Describe briefly the historical background of Industrial Engineering.
- Q2. How does a cellular layout differ from, a process layout?
- Q3. Draw and label symbols employed specifically for material handling studies.
- Explain the basic procedural steps in conducting Work Study.
- Q5. What is a string diagram?
- Q6. Describe briefly the procedure to be followed for "Time Study" by "Stop-watch Method".
- Explain outline process chart with the help of a net sketch.
- Q8. What are the four different types of value? Explain each of these citing suitable examples.
- Justify the statement, "Work Design is for increased productivity."
- Q10. Discuss the relationship between control and displays.

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SECTION-B

- Q11. What are the various objectives of I.E.? Explain briefly.
- Q12. Distinguish fully between the product layout and process layout in shop.
- Q13. State principles of motion-economy as related to human body. What is the significance of these principles for a method study practitioner?
- Q14. Define the concept of standard. Explain clearly, the steps involved in arriving at standard time, starting with observed times.
- Q15. What are various objectives of VE?

SECTION-C

- Q16. a) List the important factors that must be addressed in job design and briefly discuss the importance of each one.
 - b) "Materials handling analysis, plant layout and plant building forms a composite study", Justify.
- Q17. a) Give the list of various advantages of using "Predetermined Motion-Time Standard" system over the ordinary "Time Study".
 - State the principles of motion economy as related to human body.
- Q18. Design of workplace is an important aspect of man-machine system. Discuss the consequences if workplace is not compatible to the system. What are the various information's required for the workplace design?

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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