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Roll No

ME/AU - 701(D)**B.E. VII Semester**

Examination, December 2013

Work Study & Ergonomics

Time: Three Hours

Maximum Marks: 70

Note: All questions carry equal marks.

- Write in brief scope and purpose of work study. Discuss various steps to carry out work study project.
 - "Flow Diagrams are drawn to support flow process charts" Explain with suitable examples.

OR

- Write merits and demerits of travel charts over string diagrams.
 - b) Discuss principles of motion economy applicable to use of Human Body,
- "What do you understand by Standard time?" Why it is necessary to rate the operator? Discuss.
 - Write in brief the procedure of work-sampling? Write merits and demerits of work-sampling over stop-watch time study.

OR

Explain performance Rating. Discuss any one method of performance rating.

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- b) How will you estimated standard time by work sampling? Explain.
- Write in brief the importance of Job-evaluation. Differentiate between Job description and job specification.
 - Write merits and demerits of Merrick's differential piece rate system over Taylor's differential piece rate system:

OR

- 6. Write brief note on any two of the following:
 - Gantt incentive plan
 - Predetermined motion time system. b)
 - Therbligs.
 - Work-Factor System.
 - MOST. e)
- 7. a) "Ergonomics is a Multidisciplinary subject". Discuss.
 - Compare Relative capabilities of Human being over Machines.

OR

- 8. a) Discuss different types of Man-Machine systems.
 - Explain how information is received and processed by Human Body.
- What do you Know about displays? Explain various types of displays used in Practice.
 - What is the importance of warring signals? Explain. Differentiate between factorial and graphic displays.

OR

- 10. a) What are the general principles of auditory and tacheal displays? Explain
 - b) Differentiate between indicators and displays with suitable example.

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