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.

1. a) Write in brief scope and purpose of work study. Discuss various steps to carry out work study project.

   b) "Flow Diagrams are drawn to support flow process charts" Explain with suitable examples.

   OR

2. a) Write merits and demerits of travel charts over string diagrams.

   b) Discuss principles of motion economy applicable to use of Human Body.

3. a) "What do you understand by Standard time?" Why it is necessary to rate the operator? Discuss.

   b) Write in brief the procedure of work-sampling? Write merits and demerits of work-sampling over stop-watch time study.

   OR

4. a) Explain performance Rating. Discuss any one method of performance rating.

   b) How will you estimated standard time by work sampling? Explain.

5. a) Write in brief the importance of Job-evaluation. Differentiate between Job description and job specification.

   b) 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:
   a) Gantt incentive plan
   b) Predetermined motion time system.
   c) Therbligs.
   d) Work-Factor System.
   e) MOST.

7. a) "Ergonomics is a Multidisciplinary subject". Discuss.

   b) Compare Relative capabilities of Human being over Machines.

   OR

8. a) Discuss different types of Man-Machine systems.

   b) Explain how information is received and processed by Human Body.

9. a) What do you Know about displays? Explain various types of displays used in Practice.

   b) 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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