Total No. of Questions: 8]

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Roll No

MMPD-203 M.E./M.Tech., II Semester

Examination, June 2016

Ergonomics and Design

Time: Three Hours

Maximum Marks: 70

Note: Answer any five questions. All questions carry equal marks.

- 1. a) State important principles of ergonomics.
 - b) Define ergonomics. State its objectives and applications.
- 2. a) What is information theory? Discuss various factors affecting information reception.
 - b) Discuss characteristics of man machine system.
- ?. a) Describe the coding and sensory inputs of human body.
 - b) Describe the relationship between stress, strain and related procedure of mental workload in detail.
- 4. a) Differentiate between visual indicators and warning signals with suitable examples.
 - Discuss the importance of symbolic codes used in visual display. Differentiate between factorial and graphic display.

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- 5. a) Explain the role of over and under illumination in working area.
 - b) Describe energy expenditure in physical activities.
- a) Describe the basic rules for correct sitting position with keyboard in detail.
 - Sketch a layout of human control system. State its functions.
- 7. a) Discuss various possible hazards in electrical shocks.
 - b) What do you mean by plant safety and occupational safety? State its considerations.
- 8. Write short note on following (any two):
 - a) Anthropometry
 - b) Hazards from radiation machines
 - c) Government legislation about environment and safety

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