

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

Examination, June 2013

**Ergonomics and Design**

*Time : Three Hours*

*Maximum Marks : 70*

- Note:** i) Answer all questions. All questions carry equal marks.  
ii) Illustrate your answers with neat sketches.

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1. Define Ergonomics, what are its objectives? Mention the areas of application of Ergonomics.

**OR**

What is System? Explain MAN machine system. Explain the characteristics and various aspects of MAN machine system.

2. Describe in detail the design of 'Information Displays' What are the types of controls in use.

**OR**

Explain in detail physiological cost of work. Also explain manual material handling.

3. What do you mean by Display Design, Give its detailed classification. What are the various considerations in display design.

**OR**

What are the General principles of Display? Give characteristics & selections of Auditory and textual display.

**OR**

What is ANTHROPOMETRY? How anthropometric data is used in design.

5. Explain in brief Government legislation about occupational safety and Plant safety.

**OR**

What are the hazards in various fields of Engineering like Fire, chemicals, electric shocks explain?

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