

**III B.Tech II Semester Supplementary Examinations,
November/December 2005
ERGONOMICS
(Bio-Medical Engineering)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. What is a Transducer. Classify , types of Transducers and describe how they are useful to humans in day to day life. [16]
2. A fire station receives a call of fire accident from sixty kilometers away to extinguish fire at fifth floor in a complex. Answer the following.
 - a. How does the fire fighting equipment reach?
 - b. What type of dress should a fireman wear to prevent burns.
 - c. How the fireman reach the place of fire. [16]
3. What are anthropometric measurements? Discuss in detail how they are helpful for designing a tool room? [16]
4. (a) What is audiometry ?
(b) How do we judge the levels of hearing in defective hearing? [16]
5. Describe in detail the factors required for a space craft. [16]
6. (a) How do you explain tremors in hands ?
(b) List out the types of tremors in hands
(c) What mechanical apparatus will suit the worker with tremors ? [16]
7. Design an operation table with accessories like monitor, spotlight and air conditioning. [16]
8. Design the cock pit with a neat diagram. [16]
