

IV B.Tech II Semester Supplementary Examinations, April/May 2005
ERGONOMICS
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 70

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.
2. Draw out a design of computer room, their requirements. Compare and contrast between a computer operator and a typist.
3. Draw layout for 'coalmine' with following factors to stress on ,
 - (a) Safety of worker
 - (b) Lighting and acoustics
 - (c) Movement of material.
4. (a) What is audiometry ?
(b) How do we judge the levels of hearing in defective hearing?
5. Define anthropometry. What are the factors to be considered while designing a tool room with anthropometric measurements as a guide?
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 ?
7. Design a dental chair with its accessories?
8. Give a layout of hospital with various facilities for a hundred bedded hospitals.
