

III B.Tech II Semester Supplementary Examinations, Apr/May 2006
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. Draw out a design of computer room, their requirements. Compare and contrast between a computer operator and a typist. [16]
3. (a) Design a railway signal system for high-speed trains.
(b) In different environmental conditions. [16]
4. Design equipment for the testing of ,
(a) Acuity of vision
(b) Colour vision
(c) Field of vision. [16]
5. Describe in detail the factors required for a space craft. [16]
6. (a) Define anthropometry
(b) What anthropometric measurements you would take to measure a persons strength . [16]
7. Design an operation table with accessories like monitor, spotlight and air conditioning. [16]
8. Design a control room and present its layout. [16]
