

IV B.Tech I Semester Supplementary Examinations, April/May 2005
REHABILITATION ENGINEERING
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. In detail explain the computer aided engineering in customized component design.
2. Discuss the various methods of active prothesis.
3. Discuss the concept of FES systems.
4. Explain the terms:
 - (a) Tactual systems
 - (b) Tactual Augmentation
 - (c) Tactual Substitution
 - (d) Tactual auditory substation.
5. In detail explain the concept of AAC.
6. With a diagram of human systems and sub systems, explain the objectives and approaches of measurement in rehabilitation engineering.
7. Explain the terms:
 - (a) Characterizing tasks
 - (b) Use of computers in orientation and mobility
 - (c) Computer assisted lip reading.
8. Write notes on:
 - (a) Visual system
 - (b) Environmental control system
 - (c) Wheel chair concept.
