

III B.Tech I Semester Supplementary Examinations, May 2005
COMPUTERS IN MEDICINE
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the need for computerization in hospitals in India?
(b) Explain the design of a HELP (Health Evaluation through Logical Processing) system.
2. (a) Describe in detail the patient database management by computer.
(b) What are the security measures for the security of computer records? Explain.
3. Explain computerized Electrocardiography with respect to the following:
(a) Signal processing
(b) Analysis of signals.
4. With a neat block diagram of a Nuclear medicine computer system, explain its functions.
5. (a) Explain the algorithmic method of constructing a CMD system?
(b) Explain the production rule systems?
6. (a) Write a note on computers for care of renal disorders?
(b) Give a note on preclinical CAI (Computer Assisted Instruction).
7. Give two computer applications in critically ill patients and explain in detail?
8. Explain the computer aids with respect to the following:
(a) Blind and visually handicapped.
(b) For deaf.
