

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

**Time: 3 hours**

**Max Marks: 80**

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

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1. With a neat Block diagram, explain the Hospital Information system with respect to the following.
  - (a) Employee Information Module
  - (b) Pharmacy Module
  - (c) Reservation, Admission and Discharge Module.
2. (a) Describe patient database management by computer with respect to the following:
  - i. Structuring a database.
  - ii. Ordering Data.  
(b) Explain the evolution of a computerized medical record.
3. (a) Explain in detail the computerized Electromyography.  
(b) Explain the chromosome analysis by computer.
4. (a) Give a note on software in Nuclear medicine.  
(b) Explain computerized Emission Tomography?
5. (a) Explain Cognitive models.  
(b) Write a note on Quick Medical Reference.
6. (a) Explain the automated computer assisted fluid and metabolic balance.  
(b) Describe the cardiovascular physiologic evaluation?
7. (a) Explain in detail the Digitalis therapy?  
(b) Write short notes on ISDN (Integrated Services Digital Network).
8. Explain in detail the computer aids for the handicapped taking any 3 examples?

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