

**III B.Tech I Semester Regular Examinations, November/December 2005**  
**COMPUTERS IN MEDICINES**  
**(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 sketch explain Hospital Information System (HIS) in detail? [16]
2. (a) Describe the chromosomal analysis by computers?  
(b) Explain the important features of EMG results? [8+8]
3. Explain how do you assess the performance of ECG using computer programmes? [16]
4. (a) Discuss the need of computers in clinical laboratory?  
(b) Write short notes on Medical decision Making? [8+8]
5. (a) Discuss briefly fuzzy set theory?  
(b) What do you mean by computer assisted therapy? Explain. [8+8]
6. (a) Explain Digitalis therapy in detail?  
(b) Discuss the help of computers in cardiovascular evaluation in ICU? [8+8]
7. What do you mean by data acquisition in connection with  
(a) computer assisted medical imaging?  
(b) Processing of data? [10+6]
8. (a) Discuss a case of hearing impaired and explain the process of rehabilitation?  
(b) Write short notes on ISDN in medicine? [8+8]

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