

2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS
COMPUTERS IN MEDICINES
(BIO-MEDICAL ENGINEERING)**

NOVEMBER/DECEMBER 2005

TIME - 3 HOUR
MARK - 80

Answer any FIVE Questions
All Questions carry equal marks

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? [7+9]
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? [11+5]
5. (a) Discuss briefly fuzzy set theory?
(b) What do you mean by computer assisted therapy? Explain. [11+5]
6. (a) Explain Digitalis therapy in detail?
(b) Discuss the help of computers in cardiovascular evaluation in ICU? [11+5]
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? [10+6]