BB-205

M. Tech. EXAMINATION, Dec. 2017

(Second Semester)

(B. Scheme) (Re-appear Only)

(BME)

BME-510

MEDICAL INFORMATICS AND TELEMEDICINE

Time : 3 *Hours*]   [*Maximum Marks :* 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt any *Five* questions. All questions carry equal marks.

1. Discuss the history, structure, application and importance of medical informatics. **20**

2. Describe the classification and management system of medical database. **20**

3. Discuss the security issues in health care information system, the types of security hazards and their prevention methods. **20**

4. Write technical notes on the following : **20**
   (a) Electronic Patient Record
   (b) Clinical Support Systems.

5. Explain the following : **20**
   (a) Computers for handicaps
   (b) Computers in medical laboratory.

6. Discuss the significance of telemedicine in computer assisted surgery and drug delivery. **20**

7. Explain the characteristic features of knowledge based systems and artificial intelligence methods in medicine. **20**

8. Write short notes on any *four* of the following : **5×4**
   (a) Medical Expert Systems
   (b) Hand Held Computers
   (c) Primary Care Systems
   (d) Nursing Information Systems
   (e) Computational Biology.