

No. of Printed Pages : 03

Roll No.

D-54

B. Tech. EXAMINATION, May 2017

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(BME)

BME-208(B)

MEDICAL INFORMATICS

Time : 3 Hours]

[Maximum Marks : 75

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 *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(2-51/3) M-D-54

P.T.O.

Unit I

1. What do you understand by the term Medicinal Informatics ? Explain the structure, application and importance of medical informatics. **15**
2. Describe the following : **15**
 - (i) Medical Computer Systems
 - (ii) Natural Language Processing.

Unit II

3. Discuss the following in detail : **15**
 - (i) Uncertainty of medical data
 - (ii) Security issues in computer and internet.
4. Explain the concept and development of database management system for a hospital environment. **15**

Unit III

5. Describe the following : **15**
 - (i) Applications of computers for critically ill or handicapped
 - (ii) Nursing informaton systems.

6. Discuss in detail concept and significance of Bio-informatics and computational biology in medical informatics. **15**

Unit IV

7. Explain the following in detail : **15**
 - (i) Decision models
 - (ii) KBS.
8. Write short notes on the following : **15**
 - (i) Artificial intelligence methods
 - (ii) Medical expert systems.