

No. of Printed Pages : 03

Roll No.

651

B. Tech. EXAMINATION, May 2017

(Sixth Semester)

(Old Scheme) (Re-appear Only)

(BME)

BME-310

Medical Informatics

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. What is Medical Informatics ? Explain the systematization of computer applications in relation to the structure of medical informatics.

20

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P.T.O.

2. Explain the different security issues employed in computer and internet. **20**
3. Briefly describe the following (any *four*) :
 - (a) KBS **5**
 - (b) Clinical Support system **5**
 - (c) Electronic patient record **5**
 - (d) Examples of classification systems **5**
 - (e) Telemedicine. **5**
4. How database management is done in the hospitals and industries ? **20**
5. (a) Describe the different methods of Artificial intelligence. **10**
 - (b) Briefly give the introduction of Bio-informatics. **10**
6. (a) Describe the quantitative and qualitative decision models. **10**
 - (b) Give a brief description about the information security in health care information systems. **10**

7. How health information system's safety is evaluated, explain with examples : **20**
8. Explain the role of computers for critically ill/handicapped patients. **20**