

# CBCS SCHEME

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18BM743

## Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Medical Informatics and Expert Systems

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. What is medical informatics? Bring out the difference between medical informatics and bioinformatics. (10 Marks)
- b. Describe the prospects of medical informatics. (10 Marks)

OR

- 2 a. What is HMIS? Write the need and benefits of HMIS in hospitals. (10 Marks)
- b. Write the steps in development of HMIS. (10 Marks)

### Module-2

- 3 a. Describe in detail central Registration module of HMIS. (10 Marks)
- b. Explain in detail OPD/Consultant clinic module of HMIS. (10 Marks)

OR

- 4 a. Describe in detail operation theater module of HMIS. (10 Marks)
- b. Explain pharmacy in module of HMIS. (10 Marks)

### Module-3

- 5 a. What is CAME? Describe in detail education software. (10 Marks)
- b. Write short notes on :  
(i) Tele-Education (ii) Tele-Mentoring (10 Marks)

OR

- 6 a. What is CAPE? Explain Patient Counseling Software. (10 Marks)
- b. What is CAS? Write the limitations of conventional surgery. (10 Marks)

### Module-4

- 7 a. What is Telemedicine? Mention the applications of telemedicine in brief. (10 Marks)
- b. Describe the role and use of internet in telemedicine. (10 Marks)

OR

- 8 a. What is Tele Surgery? Discuss in detail Robotic Surgery. (10 Marks)
- b. Enlist the applications of Tele Surgery. (10 Marks)

### Module-5

- 9 a. What is an expert system? With neat block diagram explain the branches of Artificial Intelligence (AI). (10 Marks)
- b. Explain database neural networks in expert system. (10 Marks)

OR

- 10 a. Describe the advantages of ES. (10 Marks)
- b. List out the applications of ES in brief. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.