



End Term Examination (December 2019)

School: School of Engineering

Program: B.Tech Biomedical Engineering

Course: Hospital Management and Medical Informatics

Course Code: BME403

Semester: VII

Max Marks: 40

Duration (mins): 90

Answer any FIVE questions

[40]

(Each question carries 8 marks)

1. Provide an overview of current robotics and artificial intelligence in healthcare, starting from back office (pharmacy stock control) to semi-autonomous and autonomous robotic application. Do you think there are certain limitations of use of AI in healthcare?
2. What was the major reason leading to medical informatics? What are the different areas in healthcare that use medical informatics? Can we say that medical informatics is multidisciplinary?
3. What are the benefits of telemedicine to the patients? Upto what degree of conditions in medical health do you think can be treated with telemedicine? What are the disadvantages of telemedicine?
4. When can a doctor issue a death certificate? Mention some examples when police should be informed after the death of a patient. What are the most important factors in producing ethical decisions in healthcare? What does section 304A say? Can you give a brief on the laws abiding by the organ donation?
5. What are the stages to obtain a patent? What are the rights that a patent brings to the patentee? What are the issues surrounding the patenting of medical procedures? Are patent laws too crucial enough to impede medical care and innovation?
6. Write short notes on : (a) HL7, (b) de-dombal system
7. Explain the medical ethical laws for the following :
(a) organ donation, (b) ART bill