



### End Term Examination (December 2019)

**School:** School of Engineering

**Program:** M.Tech (Bio-Engineering) (BM)

**Course:** Healthcare and hospital management

**Course Code:** BEN603

**Semester:** III

**Max Marks:** 40

**Duration (mins) :** 90

**Answer any FIVE questions**

**[40]**

**(Each question carries 8 marks)**

1. On the evening shift of the third day of admission, his nurse heard a sudden noise and noticed that the incubator door was open and the baby was on the floor. The in-charge nurse immediately announced the incident to the on-call physician. The newborn was examined thoroughly and no physical injuries were found. Moreover, the incident was reported to the chief physician of the department and the record of this incident was immediately sent to the hospital officials. Later, all other incubators were inspected to make sure they were secure enough. When the staff informed the newborn's father of the falling, he accused the mother of neglecting the child, although she had said that she was resting at the time of the incident. Answer the following questions relating to the above scenario.  
What are the factors leading to this incident? How could this incident be prevented? What is the responsibility of the staff in dealing with this incident? Based on professional commitments, what is the duty of medical and nursing staff in such events? What are the ethical issues of patient safety in this case? What are the legal obligations and consequences of this case?
2. Why managing human resource for health has become a key imperative in health systems management? What factors are required to make a system patient centered and also work on the employee satisfaction at the same time?
3. How do think Information systems can help in our hospitals? What are the challenges faced by the nurses and other people working in healthcare using hospital information system? Do you think it is cost effective? What are the important aspects to be covered while designing and information system?
4. What is a medical patent? The patent system is designed to promote innovation and, at the same time, offer a mechanism ensuring that the fruits of that innovation are accessible to society. In the context of public health, can you explain the challenges faced

by the policy makers to find an optimal balance between the rights of the patentee and the technological innovations to serve health conditions of the society?

5. How do telemedicine services actually work? Are they reliable? What can you really use telemedicine services for? Do you think that patients can get more advantages by this more “hands off” services based approach than the regular one? What are the technical limitations of telemedicine?
6. Explain the following: (a) MTP act, and (b) Euthanasia act.
7. Explain the following: (a) benefits of decision support planning, and (b) benefits of medical informatics

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