

Code No: 07A51103

R07

Set No. 2

III B.Tech I Semester Examinations, November 2010
HOSPITAL SYSTEM MANAGEMENT
Bio-Medical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the need for UPS in ICCU and CCU. [16]
2. Explain the terms:
 - (a) Generator services
 - (b) Operation Theatre. [8+8]
3. Write short notes on:
 - (a) Sanitation
 - (b) Laundry
 - (c) Lifts. [5+5+6]
4. (a) Write a note on testing of biomedical equipment to provide patient safety.
(b) Explain the terms
 - i. Leakage currents
 - ii. Let go currents
 - iii. Earthing. [10+6]
5. Write short notes on:
 - (a) Significance of a biomedical engineer in a hospital
 - (b) Multi-specialty hospitals. [8+8]
6. (a) Discuss how training is provided for men in operating and maintaining the hospital equipment.
(b) Write a note on the work of BME department in a hospital. [8+8]
7. Explain the importance of nursing services in a hospital? Add a note on dietary services. [16]
8. Give your own view for the use of computer in managing a hospital. [16]

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Set No. 4

III B.Tech I Semester Examinations, November 2010
HOSPITAL SYSTEM MANAGEMENT
Bio-Medical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Regarding hospital electrical systems, explain the terms:
(a) Voltage stabilizer
(b) Computerised monitoring units
(c) Safety precautions. [6+5+5]
2. Explain in detail the role of dietician in a hospital? [16]
3. Define hospital and explain its major functions in detail. [16]
4. Explain about different fire fighting units that can be used in a major hospital? [16]
5. Discuss the use of computers and information management in the aid of hospital administration. [16]
6. What are safety measures taken in the design of a hospital? Discuss with reference to Various hazards in the operation theatre. [16]
7. Explain by giving examples how the training to medical staff on technical capabilities would improve the usage of medical equipments in a better way. [16]
8. List out the factors to be considered while planning for a general hospital and super specialty hospital. [16]

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Set No. 1

III B.Tech I Semester Examinations, November 2010
HOSPITAL SYSTEM MANAGEMENT
Bio-Medical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Discuss the need for continuous power supply in ICU and Give the safety precaution to be taken in ICU. [16]
2. (a) Explain about computerized patient billing mechanism in detail.
(b) Explain about the utility of computers in biomedical engineering department of a major hospital. [8+8]
3. Describe the following aspects of hospital services:
(a) outpatient
(b) Inpatient
(c) Medical supply. [5+5+6]
4. Write a note on grounding system involved in EEG and EMG systems. [16]
5. How do you plan to construct 50 bedded hospital in a rural area? [16]
6. Write short notes on
(a) Purchase of medical equipments
(b) Training of men for medical equipments. [8+8]
7. Justify your answer on the need of air conditioning in hospital environment? Add a note on indoor air quality in hospitals? [16]
8. Discuss the terms:
(a) Objectives of a hospital
(b) Role of Biomedical engineers. [8+8]

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R07**Set No. 3**

III B.Tech I Semester Examinations, November 2010
HOSPITAL SYSTEM MANAGEMENT
Bio-Medical Engineering

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. Explain about different services in primary health care centers. [16]
2. Discuss the following services rendered in a hospital.
 - (a) Lift arrangements
 - (b) Fire fighting equipments
 - (c) Laundry services. [5+6+5]
3. Discuss the planning of a hospital in all aspects at a rural area. [16]
4. Write a note on:
 - (a) Pharmacy module
 - (b) Maintenance of patient records. [8+8]
5. Write short notes on:
 - (a) Stores in a hospital
 - (b) Nursing services
 - (c) Diet management. [5+6+5]
6. Write a note on different transformers used for designing voltage stabilizer and discuss various technical specifications and optional features of it. [16]
7. Discuss the problems encountered by interference signals in a hospital while using monitoring and therapeutic equipments. Also make a note on safety precautions. [16]
8. Give your view on maintaining biomedical department in a hospital. [16]
