

Code No: 07A51103

R07**Set No. 2**

III B.Tech I Semester Examinations, MAY 2011
HOSPITAL SYSTEM MANAGEMENT
Bio-Medical Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the terms:
 - (a) Patient billing
 - (b) Patients records maintenance. [8+8]
2.
 - (a) Differentiate between preventive and periodical maintenance procedures of medical equipment.
 - (b) Explain the need for training of men for medical equipments with examples. [8+8]
3.
 - (a) Differentiate the inpatient and outpatient services of a hospital?
 - (b) What is the role of a dietary service in a hospital? [8+8]
4.
 - (a) Write a note on 3-phase power supply for operation theatre.
 - (b) Write a note on diesel generator. [8+8]
5. What are safety measures taken in the design of a hospital? Discuss with reference to Various hazards in the operation theatre. [16]
6. Explain about different fire fighting units that can be used in a major hospital? [16]
7.
 - (a) Design the electrical power distribution system for a 500 bedded major hospital.
 - (b) Write a note on safety precautions. [10+6]
8.
 - (a) With a neat schematic diagram, and explain of hospital system.
 - (b) Discuss various responsibilities of a biomedical engineer and Explain in detail. [8+8]

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Set No. 4

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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 system explain the terms:
(a) Interference of systems
(b) Grounding
(c) Protection from hazards. [5+5+6]
2. Explain about different services in primary health care centers. [16]
3. Discuss various types of staff services in a hospital? [16]
4. Explain the need of air conditioning in a hospital and write about different air conditioners? [16]
5. With neat block diagram explain the functions of UPS and write a note on choice of battery for UPS. Add a note on electrical factors in a operation theatre. [16]
6. How do you plan to construct 50 bedded hospital in a rural area? [16]
7. Explain how the training is given to personnel to maintain the equipments intake and their condemnation. [16]
8. Why these days the computers are becoming the backbone of information management in hospital? Explain. [16]

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R07**Set No. 1**

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HOSPITAL SYSTEM MANAGEMENT
Bio-Medical Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the isolation circuits involved with the machines used in hospitals to prevent any ground problems. [16]
2. What do you mean by preventive and periodical maintenance? Explain the concept with an example. [16]
3. Regarding the construction of a hospital, explain the following:
 - (a) Planning
 - (b) Location
 - (c) Orientation
 - (d) Budgeting. [4+4+4+4]
4. Draw out the importance of the following in respect to hospital planning:
 - (a) Air conditioning
 - (b) Fire fighting and safety services. [8+8]
5. Describe in detail various line and auxiliary services provided in a hospital? [16]
6. Discuss the significant role of biomedical engineer in hospital today. [16]
7. Write short notes on:
 - (a) Choice of battery for UPS.
 - (b) Safety precautions in the hospital. [8+8]
8. Give your own view for the use of computer in managing a hospital. [16]

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R07**Set No. 3**

III B.Tech I Semester Examinations, MAY 2011
HOSPITAL SYSTEM MANAGEMENT
Bio-Medical Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the concept of safety in all aspects of hospital environment. [16]
2. Explain the terms:
 - (a) Role of primary health care
 - (b) Role of teaching hospital. [8+8]
3. Explain the terms:
 - (a) Purchase of drugs
 - (b) Patient record maintenance
 - (c) Patient billing. [5+6+5]
4. Write a note on:
 - (a) Registration process in the hospital
 - (b) Ambulance services
 - (c) Stores. [5+6+5]
5. Explain how and why the following services are called as the life lines of hospitals.
 - (a) Water supply
 - (b) Air conditioning. [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. Write short notes on:
 - (a) Leakage currents
 - (b) Patient safety from electric hazards in ICCU. [8+8]
8.
 - (a) How do you choose site for a multispeciality hospital?
 - (b) Explain about the communication procedures with in a hospital. [8+8]
