

IV B.Tech. II Semester Regular Examinations, April/May -2005
HOSPITAL SYSTEMS MANAGEMENT
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain about Teaching and Research Hospitals in detail.
(b) Explain the role and functions of a Primary Health Centre in detail.
2. (a) Explain the Nursing services of a Hospital with diagrams.
(b) Explain atleast two means of transportation of people and materials in a hospital.
3. Explain the role of computers in different departments of a hospital.
4. (a) Discuss the location and planning of various theatres and ICCUs in a Hospital.
(b) Discuss about the diesel generator stand of power supply in the important departments of a hospital.
5. (a) Explain the procedure of preventive and periodical maintenance of medical equipment.
(b) Explain the need for training of men for medical equipment with examples.
6. (a) Explain the precautions and controls necessary in various areas of a hospital served by centralized medical gas systems.
(b) Explain the locations, Orientation and communications of emergency services and inpatient services in a hospital.
7. (a) Discuss about UPS requirements for ICU and computerised monitoring units.
(b) Explain the interference of systems protection grounding of ECG and EEG.
8. Write short notes on the following:
 - (a) Dietary services
 - (b) Management of lifts
 - (c) Medical records Maintenance
 - (d) Inventory of medical equipment.

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1. Classify Hospitals explaining about each in detail.
2. (a) Discuss about the electrical power supply requirements for various theatres and rooms.
(b) Discuss about the laundry services of a specialized Hospital.
3. (a) Explain the functions, location and space management of Medical records.
(b) Write short notes on computerized patients billing and discharge records of patients.
4. (a) Explain the UPS requirements of ICU and O.T.
(b) Discuss the various safety precautions to be taken from Electrical Hazards in a Hospital.
5. (a) Discuss about the maintenance of Bio Medical Equipment in detail.
(b) Discuss about training of men for various medical equipments.
6. (a) Describe the ideal Location for a Hospital.
(b) Discuss about the emergency drug and medical supply services of a General hospital.
7. (a) Discuss about the lift management in a hospital.
(b) Describe the procedure for purchase of medicines and drugs in a hospital.
8. Write short notes on the following:
 - (a) Nursing services
 - (b) Equipment housing in a hospital
 - (c) Grounding for ECG and EMG
 - (d) Periodical maintenance procedures.

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1. Classify Hospitals on clinical basis. Explain about any two types of Hospitals in detail.
2. (a) Describe the Supportive Services and Auxillary services of a Hospital.
(b) Explain the transport services of a specialized Hospital.
3. (a) Discuss about the orientation, budgeting, communication within the hospital and outside the hospital.
(b) Discuss about the sanitation requirements of a hospital.
4. Explain the functioning of computerized Hospital Information Systems, Explain about any two in detail with flow charts or diagrams.
5. (a) Discuss about the grounding mechanisms of ECG, EEG, EMG and other therapeutic equipment.
(b) Explain the power supply requirements for ICU and OT.
6. (a) Discuss about the purchase servicing and maintenance of Biomedical equipment.
(b) Explain the preventive Maintenance procedures of Biomedical equipment.
7. (a) Explain with a diagram the functions, location and design of a Nursing department.
(b) Discuss about air conditioning requirements for various O.Ts and ICCUs.
8. Write short notes on the following:
 - (a) Maintenance of patients records.
 - (b) Design of voltage stabilizers for ICCUs.
 - (c) Dietary services
 - (d) Fire fighting equipment.

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1. (a) Compare and contrast a General Hospital and a Primary Health Centre.
(b) Discuss about location and planning of a Hospital.
2. Explain in detail the different aspects of Hospital Services with relevant flow charts.
3. (a) Explain about computer aided hospital applications and admission/discharge records of patients.
(b) Explain the need of UPS in a Hospital.
4. (a) Explain about the troubleshooting/servicing procedure of medical equipment.
(b) Discuss about the air conditioning requirements of various theatres and rooms.
5. (a) Explain the location, orientation and communications of emergency services and outpatient services in a hospital.
(b) Discuss about the maintenance of patient records.
6. (a) Design a 220V, 50Hz constant voltage stabilizer for hospital use.
(b) Discuss the importance of grounding of ECG, EEG, EMG and other therapeutic equipments.
7. (a) Describe the procedure for the purchase of medical equipment in a General Hospital and in a specialized Hospital.
(b) Explain sanitation requirements and planning in a Hospital.
8. Write short notes on the following:
 - (a) Teaching hospitals
 - (b) Fire fighting equipment
 - (c) Inventory of medicines and drugs in a hospital
 - (d) Maintenance of medical Equipment.
