

**ANDHRA UNIVERSITY
SCHOOL OF DISTANCE EDUCATION**

**MBA Hospital Administration (Third year)
ASSIGNMENT QUESTION PAPER 2020-2021**

Answer ALL Questions

Paper - I: HOSPITAL WASTE MANAGEMENT

(20 Marks)

1.
 - a. What are the types of hospital wastes? How are the different types of waste segregated? What is Colon Coding?
 - b. What is the role of a hospital administration in Hazardous Waste Management?
2.
 - a. How are Operation Theatres sterilized? Where is the OT linen and instruments sterilized? Who is responsible for maintaining a sterile OT?
 - b. A new born child develops conjunctivitis after her mother underwent caesarean section in an OT. What is the possibility that it is a nosocomial infection and how could it have been prevented?
3.
 - a. As a hospital administration how will you handle a hazardous material spill in your hospital? How is the staff trained to handle hazardous material?
 - b. How are hospital employees trained to protect themselves and others from contracting hospital acquired infection?
4.
 - a. What are recyclable and non recyclable materials in a hospital? How are they disposed?
 - b. What are the rules and regulations going the disposal of Bio Medical Waste? What are the responsibilities of hospitals with regard to handling biomedical waste?
5.
 - a. Write about Common waste facility.
 - b. Describe in detail how to dispose waste in a Surgical Ward.

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Paper - II: RISK AND DISASTER MANAGEMENT

(20 Marks)

1.
 - a. Disaster Management Act 2005, approach for mass casualty management in metro city.
 - b. Classify occupational hazards in the hospital settings. Discuss the solution to mitigate the hazards, as an administrator of the hospital.
2.
 - a. What is meant by Hospital Infection? How does hospital perform its role in controlling epidemics?
 - b. What are BARC guide lines, planning and designing of nuclear medicine department?
3.
 - a. Planning criteria and operational consideration for ensuring fire safety in the hospital.
 - b. Most problems in service hospitals relates to the engineering services, comment. Discuss organizational changes that are necessary to bring out qualitative improvement.
4.
 - a. What do you understand by Hospital Hygiene? Discuss steps you will take to organize a scientific garbage disposal system for a speciality hospital in metropolitan city.
 - b. Describe a plan of infection control program that can be established in 12 bedded multi-specialty intensive care area in a hospital. Enumerate the role of infection control nurse in detail.
5.
 - a. What is Euthanasia? Write the types of Euthanasia.
 - b. Hospital security systems, comments your views on in-house and outsourcing security.

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Paper -III: LEGAL AND ETHICAL ISSUES FOR HOSPITALS

(20 Marks)

1.
 - a. Explain with examples the concepts of patents, Copyrights, Trademarks and design under copyright act.
 - b. Explain in detail the sample collections and transportation of evidences in medicolegal case of poisoning.
2.
 - a. What is Negligence? What are the types of negligence?
 - b. Legal and Ethical issues relating to organ transplant programme in hospital.
3.
 - a. Discuss the legal liabilities under the law of torts. Describe the areas of hospital where legal problems are likely to arise and suggest remedial measures to be taken.
 - b. Drug and Cosmetic Act. Discuss the role of drug and cosmetic Act in planning and organization of blood bank in a tertiary care hospital.
4.
 - a. "All agreements are not contracts, but all contracts are agreements". Discuss.
 - b. Write the main features of Payment of Gratuity Act, 1972.
5.
 - a. Describe Duties and Responsibilities of Doctor as per code of medical ethics.
 - b. Discuss briefly various labour laws applicable to a hospital.

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Paper -IV: OPERATIONS RESEARCH

(20 Marks)

1. a. A company manufactures two products 'Alpha' and 'Beta'. Each unit of Alpha requires 1 hour of machining and 2 hours of skilled labour, whereas each unit of Beta uses 2 hours of machinery and 1 hour of skilled labour. For the following month, the machinery capacity is limited to 720 hours and the skilled labour is limited to 780 hours. Not more than 320 units of Alpha can be sold during a month for the maximisation of profits, determine the optimal product mix and maximum profit. Unit contribution from Alpha is 96 and from Beta is Rs.4 Use simplex method.
- b. Define operations research. Also explain applications of operation research in various fields.
2. a. Explain the difference between a transportation problem and an assignment problem.
- b. An cattery keeps stock of a popular brand of cookies. Previous experience shows the daily demand pattern for the item with associated probabilities as given below:

Daily demand:	0	10	20	30	40	50
Probability:	0.01	0.20	0.15	0.50	0.12	0.02

Stimulate the demand for next 10 days using the random numbers 25, 39, 65, 76, 12, 05, 73, 89, 19, and 49. Also estimate average daily demand.
3. a. M/S BM Electric Co. Produces two types of electric dryers A and B that are produced and sold on weekly bases. The weekly production quantity cannot exceed 25 units for A and 35 for B due to limited resources. The company employs 60 workers. Dryer A requires two man-weeks of labour where B requires only one man-hr. Profit carried by A is Rs. 60/- and B is Rs.40/- Formulate the above as a linear programming problem and graphically solve for maximum profit.
- b. Explain the detail the process of simulation with an example.
4. a. A Project Manager gathered important information for a new project which is given below:

Time Estimated (marks)

Activity	Optimistic	Most Likely	Pessimistic	Immediate Predecessors
A	1	4	7	-
B	2	6	7	-
C	3	3	6	B
D	6	13	14	A
E	3	6	12	A,C
F	6	8	16	B
G	1	5	6	E,F

(i) Draw the network diagram by Arrow-on node (AON) method. Calculate the expected time and variance for each activity.

- (ii) Calculate the activity slacks and determine the critical path using the expected activity times.
- (iii) What is the probability of completing the project within 23 weeks?
- b. A small internet cafe has two computer terminals. The arrival rate of internet users in the cafe is 10 users per hour. Each user spends 10 minutes on the computer. The arrival and service process follow exponential distribution. Find the followers.
 - (i) What is the probability that both computers are free?
 - (ii) What is the probability that a customer can use computer after arriving?

5. a. Solve the following game and find game value

	B1	B2	B3
A1	30	40	-80
A2	0	15	-20
A3	90	20	50

- b. Solve the following using graphical method

	B1	B2	B3	B4
A1	2	2	3	-2
A2	4	3	2	6

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Paper -V: HEALTH INSURANCE

(20 Marks)

1.
 - a. Explain the benefits offered to employee under CGHS.
 - b. What are the benefits and disadvantages of Aarogyashree?
2.
 - a. What is Ayushman Bharath scheme? Explain the benefits.
 - b. What is Health Insurance? How many types are there?
3.
 - a. What are the potential risk categories can such people get Insurance cover.
 - b. How can health Insurance help an ordinary citizen? How does he/she benefit.
4.
 - a. What are the various hospital grades. How are hospitals classified?
 - b. What is IRDA? What are its powers?
5.
 - a. What are the four general insurance companies? How are their roles different?
 - b. What is the different between life insurance and Health Insurance?

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Paper -VI: CLINICAL DIAGNOSTIC AND THERAPEUTIC SERVICES

(20 Marks)

1. a. Hospitals are coming under threat of extremism, violence, data theft etc. How do you device a program to protect hospital property, personnel and data?
 b. Radiation protection and safety in Hospitals.
2. a. As an administrator, how will you ensure patient satisfaction at both outpatient and inpatient areas? What steps would you take to evaluate the effectiveness of the system?
 b. Write briefly on the planning, organizing, staffing of hospital engineering services.
3. a. What measures you take to prevent post-operative infections in a tertiary care hospital?
 b. Discuss the planning considerations in accident and emergency services of a hospital.
4. a. Discuss nursing services management in critical care areas of a multi-speciality hospital.
 b. Discuss management of medico legal cases in a multi speciality hospital.
5. a. Mention in brief statutory requirements for a radiology department.
 b. Explain Quality assurance of laboratory services.