

**ANDHRA UNIVERSITY
SCHOOL OF DISTANCE EDUCATION**

**MBA Hospital Administration (Third year)
ASSIGNMENT QUESTION PAPER 2022-2023**

Answer all the Questions not exceeding FOUR pages each answer

Paper - I: HOSPITAL WASTE MANAGEMENT

(20 Marks)

1.
 - a. What are Hospital Hazards and write its management in brief?
 - b. Discuss the role of Hospital Administrator in Hospital Waste Management.

2.
 - a. Write in brief about generation and segregation, storage, transportation and treatment of Bio-medical waste.
 - b. Managerial issues, policies and procedures in Bio-medical Waste Management.

3.
 - a. Write about the Hospital Infection Control Committee and their functions in a 200-bedded hospital.
 - b. Write in brief about SSSD in a tertiary care government teaching hospital.

4.
 - a. Colour Coding criteria for segregation of Bio-medical waste according to WHO and methods for disinfection.
 - b. Importance of Hospital Waste and Hospital Waste Management Program.

5.
 - a. Write in detail about the Sewage disposal and Modern Sewage treatment.
 - b. Social aspects of excreta disposal in India.

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Answer ALL Questions

Paper - II: RISK AND DISASTER MANAGEMENT

(20 Marks)

1.
 - a. Risk Analysis in organization. How is it helpful?
 - b. What are the steps to be followed in the Assessment of the Disaster? Classification of Disasters.

2.
 - a. Enumerate the causes for decreased tourism in Kerala in 2018.
 - b. Enumerate the role of Infection Control nurse in detail.

3.
 - a. Name few diseases that require isolation of patients. Discuss on what type of facilities to be provided to them.
 - b. What are the critical asserts of the hospital and role of hospital security services and technology?

4.
 - a. Fire hazards in an existing hospital are imminent. Prepare a plan to prepare a hospital against fire hazards.
 - b. Comment on Recent Fire accidents in hospital. What porecautionary measures to be followed while planning for a hospital.

5.
 - a. What are the sources for the potential hazards by Radiation Exposure. How would you address those problems?
 - b. what regulatory norms should be known to handle Radiology Department? What is the Role of RSO?.

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Paper -III: LEGAL AND ETHICAL ISSUES FOR HOSPITALS

(20 Marks)

1. a. What is the Andhra Pradesh Private Medical Care Establishment Act, 2002? What permissions would you need if you were to set up a 100-bedded private hospital.
b. What is the difference between private and public hospitals? How are each of these governed? Elaborate with examples.
2. a. What are the rules and regulations and benefits available for Class-IV employees for a hospital? How is their job, salary and health protected?
b. Compare and contrast between Hospital Industry and Hospitality Industry.
3. a. What is Doctor Patient relationship? How is consumer protection Act helpful to the patient?
b. Discuss the rights and responsibilities of patients undergoing treatment in a Hospital.
4. a. What is CP Act? How does it work in the hospital scenario?
b. How does PNDT Act help the citizens? Who is benefitting by this Act? What was the reason this Act was passed?
5. a. What is the role of the Drug Controller? Discuss with particular reference to control of Medicines.
b. Are you for an against Euthanasia? Put forth your arguments with examples.

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Paper -IV: OPERATIONS RESEARCH

(20 Marks)

1.
 - a. Give the mathematical formulation of an assignment problem. How does it differ from a transportation problem?
 - b. An Automobile dealer wishes to put four repairmen to four different jobs. The repairmen have different kinds of skills and they exhibit different levels of efficiency from one job to another. The dealer has estimated the number of man-hours that would be required for each job-man combination. This is given in the matrix form in the following table.

		Jobs			
		A	B	C	D
Men	1	5	3	2	8
	2	7	9	2	6
	3	6	4	5	7
	4	5	7	7	8

Find the optimal assignment that will result in minimum man hours needed.

2.
 - a. A project manager gathered important information for a new project which is given below:

Activity	Time (in Weeks)			Immediate Predecessor
	Optimistic time	Most Likely	Pessimistic	
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 2 weeks?
 - b. Describe Project Management. Explain various techniques of Project Management in business optimization process.
3.
 - a. Discuss in detail the entire process of queuing system.
 - b. Two companies are competing for the market share of the similar product. The pay off matrix in terms of their advertising plan is shown below:

		B		
		B ₁	B ₂	B ₃
A	A ₁	10	5	-2
	A ₂	13	12	13
	A ₃	16	14	10

Suggest optimal strategies and value of the game.

4. a. A dealer wishes to purchase a number of fans and sewing machines. He has only Rs.5700/- to invest and has space utmost for 20 items. A fan costs him Rs.360 and a sewing machine Rs.240. His expectation is that he can sell a fan at a profit of Rs.22 and sewing machine at a profit of Rs.18. Assuming that he can sell all the items that he can buy, how should he invest his money in order to maximize his profit? Formulate this problem as Linear programming problem and then use graphical method to solve it.

b. Explain in detail the process of simulation with an example..

5. a. Solve the following LPP using Simplex method

$$\text{Maximize } Z = 5x_1 + 6x_2$$

Subject to constraints

$$2x_1 + 3x_2 \leq 12$$

$$3x_1 + 2x_2 \leq 12$$

$$x_1, x_2 \geq 0$$

- b. Solve the following game and find gamevalue

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

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Paper -V: HEALTH INSURANCE

(20 Marks)

1. a. Discuss the trends in private and public expenditure on health.
b. Discuss briefly on elasticity of supply and demand with suitable examples from health care field
2. a. Discuss briefly about increasing Insurance penetration in India
b. Explain in detail about the principles of Health Insurance and health insurance products. Give examples.
3. a. Explain the role of TPA in processing Insurance Claims
b. Briefly identify the gaps in the services rendered by Insurance Providers.
4. a. What are the distribution channels in Insurance and describe roles?
b. Elaborate on the role of IRDA in supervising insurance promotional activities.
5. a. Write the salient features of actuarial principles and premium setting.
b. Explain the various insurance models and its application in the Indian Scenario.

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Paper -VI: CLINICAL DIAGNOSTIC AND THERAPEUTIC SERVICES

(20 Marks)

1.
 - a. Discuss the importance of any five value-added services in Corporate Hospital.
 - b. Discuss the planning, staffing, functioning of Intensive Care Unit (ICU) in the hospital.
2.
 - a. What is Sterilization? Examine its need and importance in a Hospital.
 - b. Planning Neonatal ICU.
3.
 - a. Discuss the critical factors in energy management in hospital setting
 - b. Discuss on Dietary Services in a General Hospital..
4.
 - a. Over-crowding and long waiting time in OPDs are the two major problems in hospitals in India. Discuss a program of action for effectively handling these problems.
 - b. “The primary reason for record keeping is to improve patient care”. Discuss in detail steps to organize a “Medical Record Department” in a hospital. How the automatic data processing and use of computers would change the present set up of medical records department in near future?
5.
 - a. What is nursing care? How would you plan to evaluate the nursing care of a Hospital?
 - b. Post-Operation infection delays recovery and after increase length of stay and may produce lasting squeals and require extra resources for investigations, management and nursing care. Its prevention or reduction is therefore, relevant to quality patient care. Discuss the strategy you would adopt as a Hospital Administrator of a 750-bedded hospital to decrease post-operative infections.