**OP Code:121380** 

# First Year MHA Degree Examinations Model Question paper PAPER I – General Management (2013 Scheme)

Time: 3 Hours • Answer all the questions Max Marks: 100

Essay (2x20=40)

1. "Decisions permeates through functions and resources"- Explain the statement with examples from hospital. Add a note on process of decision making

2. Define motivation and explain four major theories of motivation.

Short Essay (2x10=20)

- 3. Which are the essential elements of an effective control system
- 4. How does TA help in managerial development

Short Notes (8x5 = 40)

- 5. Contingency approach
- **6.** Management by objectives
- 7. Features of coordination
- **8.** Types of discipline
- **9.** Job analysis
- 10. Advantages of trade unionism
- 11. Advantages of incentive schemes
- 12. Morale

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**QP Code: 122380** 

## First Year MHA Degree Examinations Model Question paper

### PAPER II - HOSPITAL ADMINISTRATION -I

(2013 Scheme)

Time: 3 hours Max Marks: 100

- Answer all the questions
- Draw diagrams wherever necessary

Essays: (2x20=40)

- 1. Discuss about the planning process for 300 bedded multispecialty hospitals in account to foreseeable future development.
- 2. Explain elements and principles of primary health care. Brief the Indian public health standards for PHC.

Short Essay: (2x10=20)

- 3. Explain the planning, design and organization of an accident and emergency department.
- 4. Define hospital. Explain the types and classification of hospital

**Short notes:** (8x5=40)

- 5. Hospital as a system
- 6. Hospital transportation services
- 7. Millennium development goal
- 8. Sleep laboratory
- 9. Indices of measurement of hospital utilization
- 10. HVAC in hospitals
- 11.Srivastava committee
- 12. Types of hospital waste

### First Year MHA Degree Examinations Model Question paper

# PAPER III – RESEARCH METHODOLOGY & BIOSTATISTICS (2013 Scheme)

**Time: 3 Hours** Max Marks: 100 • Answer all the questions • Write Section A and B Separate answer books. • Do not mix up questions from section A and Section B **OP Code: 123380** SECTION A- RESEARCH METHODOLOGY 50 **Essay:** (20)1. Prepare a methodology including questionnaire to assess the satisfaction of employees in a hospital. **Short Essay:** (10)2. Describe various research methods **Short Notes:** (4X5=20)3. Sampling 4. Hypothesis testing 5. Pictogram 6. Report writing **OP Code: 124380 SECTION B-BIOSTATISTICS** 50 **Essay:** (20)1. Explain the distinction between regression and correlation. Calculate the co-efficient of correlation from the following data by the method of rank difference: Rank of X: 10 6 2 5 5 9 Rank of Y: 10 6 8 4 (10)**Short Essay:** 1. Two groups of 100 people each were taken for testing the uses of a vaccine .15 persons contracted the disease out of the inoculated persons, while 25 contracted the disease in the other group . Test the efficacy of the vaccine using  $X^2$  value.

Short Notes: (4X5=20)

- 2. Chi-square test.
- 3. Probability.
- 4. Why standard deviation is considered to be the best measure of dispersion

At 5% level for one degree of freedom the value of  $X^2$  is 3.84

5. Following are the total cholesterol values of 15 patients – 155, 196, 235, 153, 180, 152, 178, 180, 172, 202, 223, 164, 231, 196, 219. Calculate the median.

# First Year MHA Degree Examinations Model Question paper PAPER IV – MEDICAL RECORDS & MEDICAL EQUIPMENT (2012 Cab

	(2013 Scheme)	
Time: 3 Hours	0 marks	
	ons and B in separate answer books. sestions from section A and Section B	
QP Code: 125380	SECTION A – MEDICAL RECORDS	(50)
Essay:		(20)
1. Define medical records.	. What are the uses & values of medical records.	
Short Essay:		(10)
	What would be the composition of an audit committee.	(4575 00)
Short Notes: 3. Medical records commi	ittaa	(4X5=20)
4. ICD-10	nnee	
5. Functions of MRD		
6. Mention the medical ter	rm for the following with example	
a. Gum		
b. Stomach		
c. Vein		
d. Knee		
e. Rectum		
QP Code: 126380	SECTION B – MEDICAL EQUIPMENT	(50)
Essay:		(20)
1. Explain the function	ons of biomedical engineering department in a multispeci	alty Hospital.
Explain various ty	pes of maintenance.	
Short Essay:		(10)
2. Explain physiologi	ical effects of electric current.	
Short notes:		(4X5=20)
3. Shortwave diathern	my	•
4. X ray safety		
5. Defibrillator		
6. Radiation safety		

# First Year MHA Degree Examinations Model Question paper PAPER V ORGANISATIONAL BEHAVIOUR & MANAGERIAL COMMUNICATION (2013 Scheme)

Time:	hours Ma	rks:100
	Answer all the questions	
	Write Section A and B Separate answer books.	
	Do not mix up questions from section A and Section B	
QP Co	le: 127380 SECTION A- ORGANISATIONAL BEHAVIOUR	50
Essay:		(20)
1.	What is motivation. Discuss the important theories of motivation.	
Short 1	ssay:	<b>(10)</b>
2.	Define personality. Critically examine the Freudian stages of personality	y development
Short 1	otes:	(4X5 = 20)
3.	Absenteeism	
4.	Leadership styles	
5.	Геат building	
6.	Perception	
QP Co	le: 128380 Section B - MANAGERIAL COMMUNICATION	50
Essay:		(20)
	<ol> <li>Discuss in detail about meeting and various meeting documentation</li> </ol>	ns in a health
Short 1	ssay:	<b>(10)</b>
	2. Explain press release. Prepare a press report about the remarkable he	art surgery done
	in your hospital	
Short	notes:	(4X5=20)
	3. Rapid reading	
	4. Group communication	
	5. Structure of a speech	
	6. Managing time	

QP Code:129380

# First Year MHA Degree Examinations Model Question paper Paper V1-Operations Research (2013 Scheme)

Time: 3 Hours Max Marks: 100

- Answer all the questions
- Draw diagrams wherever necessary
- Normal Distribution table will be given

Essay:  $(2 \times 20 = 40)$ 

- 1. (a) What is replacement problem
  - (b) The operating costs per year and resale prices of equipment "A", whose purchase price is Rs. 10,000 are given below:

Year	1	2	3	4	5	6	7
Operating	1,500	1,900	2,300	2,900	3,600	4,500	5,500
cost(Rs.)							
	5,000	2,500	1,250	600	400	400	400
Resale value							
(Rs.)							

What is the optimum period of replacement

**2.** From the following data, draw the project network. Find out the critical path and project duration. What is the probability of completing the project one week before the expected time

Activity	1-2	1-3	1-5	2-3	2-4	3-5	3-6	5-6	4-6
Optimistic	2	6	6	2	11	8	3	9	4
time									
Most likely	4	6	12	5	14	10	6	15	10
time									
Pessimistic	6	6	24	8	23	12	9	27	16
time									

(P.T.O)

## **Short essays:**

$$(2 \times 10 = 20)$$

3. For the assignment problem with the following cost matrix, find the optimal solution:-

	Salesmen						
	P	Q	R	S			
Places A	11	9	13	14			
В	17	7	16	10			
C	8	12	15	12			
D	16	6	12	11			

4. Find the sequence that minimizes the total elapsed time required to complete the following jobs on machines A and B :

Job	1	2	3	4	5
Machine A	5	1	9	3	10
Machine B	2	6	7	8	4

Short notes:

 $(8 \times 5 = 40)$ 

- 5. Customer arrive at a booking office window ,being manned by a single individual at the rate of 25 per hour. Time required to serve a customer has exponential distribution with a mean of 120 seconds .Find the average waiting time of customer.
- 6. Types of decision making.
- 7. What is meant by linear programming
- 8. Find the initial feasible solution to the following transportation problem by lowest entry method.

	W1	W2	W3_	Supply
F1	2	7	4	5
F2	3	3	1	8
F3	5	4	7	7
F4	1	6	2	14

Demand

7

9

18

- 9. Scope of operations research in management and administration level.
- 10. Solve the following game:-

	I	Player B					
_		B1	B2	В3	B4		
Player A	Al	1	7	3	4		
	A2	5	6	4	5		
	A3	7	2	0	3		

- 11. Explain simulation model .
- 12. Write the dual of the following LPP:-

Maximize 
$$Z : 3x_1 + 5x_2$$

Subject to 
$$x_1 + 2x_2 \le 5$$

$$-x_1 + 2x_2 \le 2$$

$$X_1\!\ge\!0$$
 ,  $x_2\,\ge\!0.$ 

### First Year MHA Degree Examinations Model Question paper

# Paper – VII BASIC MEDICAL SCIENCES & EPIDEMOLOGY (2013 Scheme)

Time: 3 hrs Max marks: 100

- Answer all questions
- Write Section A and Section B in separate answer books. Do not mix up questions from section A and section B

Q.P.Code: 130380 SECTION A- BASIC MEDICAL SCIENCES (Applied Anatomy, Physiology & Microbiology)

Time: 1½ hrs Max Marks: 50

Essay: (20)

1. Describe the anatomical location, anatomical relations and structure of heart. Diagrammatically show the major blood vessels and blood flow in the heart

Short Essay: (10)

2. What is epithelium. Mention the different types of epithelial tissues, lining the human body and its functions.

**Short Notes:** (4x5=20)

- 3. Amoebiasis
- 4. Erythrocyte sedimentation rate (ESR)
- 5. Blood pressure
- 6. Pasteurization of milk

**Q.P.Code: 131380** 

### **SECTION B – EPIDEMIOLOGY**

Time: 1½ hrs Max Marks: 50

Essay: (20)

1. Explain the difference between the case control study and prospective study

Short Essay: (10)

2. Explain about the basic measures in epidemiology

Short notes: (4x5=20)

- 3. Explain about the modes of intervention
- 4. Life cycle of malarial parasite
- 5. Explain about the different levels of prevention
- 6. Explain the epidemiology of any two of the life style diseases.

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