



Paper ID : 250420

Printed Page: 1 of 2  
Subject Code: KMHC407

Roll No:

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**MBA**  
**(SEM IV) THEORY EXAMINATION 2024-25**  
**HEALTH CARE TECHNOLOGIES**

TIME: 3 HRS

M.MARKS: 100

**Note:** Attempt all Sections. In case of any missing data; choose suitably.

**SECTION A**

**1. Attempt all questions in brief.**

**2 x 10 = 20**

Qno.	Question
a.	Define biomedical technology and its importance in health care.
b.	What are the major constraints associated with health care technology in developing countries?
c.	Mention any two classifications of medical devices with examples.
d.	What is telemedicine? Briefly mention two of its applications.
e.	Define Industry 4.0 and its relevance in healthcare.
f.	List any two uses of virtual reality in hospitals.
g.	What is the role of IoT in health care systems?
h.	Define data governance in the context of healthcare.
i.	What are the key challenges of implementing tele-health in a rural area?
j.	Discuss the potential benefits of using big data analytics in healthcare, particularly in Predicting disease outbreaks and optimizing resource allocation?

**SECTION B**

**2. Attempt any three of the following:**

**10 x 3 = 30**

Qno.	Question
a.	Explain the trends in health care technology and challenges faced in adoption.
b.	Describe innovations in wearable medical devices and their health care impact.
c.	What is the scope of tele-health in rural and remote health care services?
d.	Explain the pillars of Industry 4.0 and their application in hospital operations.
e.	How does AR/VR enhance patient experience and medical training?

**SECTION C**

**3. Attempt any one part of the following:**

**10 x 1 = 10**

Qno.	Question
a.	Discuss regulatory compliance in data-driven hospital management.
b.	Explain the role of AI in predictive health care.

**4. Attempt any one part of the following:**

**10 x 1 = 10**

Qno.	Question
a.	Describe quality assurance mechanisms in medical device regulation.
b.	Explain how robotics can improve health care delivery with examples.



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**5. Attempt any one part of the following: 10 x 1 = 10**

Qno.	Question
a.	Discuss how digital transformation and big data are reshaping hospital management. Provide examples.
b.	Analyze the benefits, limitations, and future of robotics in surgery and patient care.

**6. Attempt any one part of the following: 10 x 1 = 10**

Qno.	Question
a.	Evaluate the impact of artificial intelligence and IoT on diagnosis, treatment, and health care delivery.
b.	Design a frame work for implementing tele-health services in a Tier-II city hospital, Considering policy and technology aspects.

**7. Attempt any one part of the following: <https://www.aktuonline.com> 10 x 1 = 10**

Qno.	Question
a.	Discuss the future prospects of AR/VR technologies in mental health treatment and rehabilitation.
b.	Critically evaluate how health care technology is changing the patient-doctor relationship.

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