



Institute of Health Management Research

MBA Hospital and Health Management

Batch-28th (2023-2025)

First Year, Term 3 End Term Examinations, April 2024

CC – 621 Digital Health

Time - 3 Hour

Maximum Marks: 50 (Minimum Marks: 20)

Instructions to students:

- This question paper contains 2 printed pages.
- Don't write anything on the Question Paper except writing your Enrolment No.

Part A

(Maximum Marks: 5)

Q1. Choose the correct option for the following (1 mark each):

- (a) What does Digital Health Enterprise Architecture aim to maximize across ICT systems?
- (i) Information sharing and interoperability profiles
 - (ii) Hardware and software compatibility
 - (iii) Data collection and sharing layer only
 - (iv) Business process layer only
- (b) What does Data Governance aim to ensure in healthcare?
- (i) Efficient and effective healthcare delivery
 - (ii) Protection of patient privacy and confidentiality
 - (iii) Interoperability of healthcare systems
 - (iv) All of the above
- (c) Which of the following is NOT a challenge in digital health adoption?
- (i) Inadequate budget utilization
 - (ii) Lack of regulatory frameworks
 - (iii) High patient capital requirement
 - (iv) Comprehensive governance mechanisms
- (d) What does Interoperability refer to in healthcare?
- (i) The ability of various healthcare systems to communicate
 - (ii) The use of data and analytics tools to find trends
 - (iii) Managing patient health data for privacy
 - (iv) Both (i) and (ii)
- (e) How can AI positively impact clinical decision-making in healthcare?
- (i) By providing virtual assistance to doctors.
 - (ii) By providing virtual assistance to doctors.
 - (iii) By slowing down the care process
 - (iv) By replacing human judgment in healthcare-specific functional areas.

Part B

(Maximum Marks: 15)

Q2. Write short notes on any three of the following:

- (a) Application of Augmented Reality and Virtuality in Healthcare (5)
- (b) Digital Therapeutics (5)
- (c) Web based surveillance (5)
- (d) Clinical decision support system (5)

Part C

(Maximum Marks: 30)

Answer the following, in detail.

- Q3.** Discuss how robotics technology is transforming healthcare delivery and improving patient outcomes across different domains. Explore subfields such as surgical robotics, rehabilitation robotics, telepresence robots, surgical training, and robotic prosthetics etc. (10)
- Q4.** Compare and contrast HIPPA and General Data Protection Regulation (GDPR). (10)
- Q5.** Enlist the stakeholders in Digital health and benefits of Digital health solutions to them. (10)