



Institute of Health Management Research

MBA Hospital and Health Management

Batch-27th (2022-2024) Hospital Management

Second Year, Term 5 End Term Examination, December 2023

HOM-709 Hospital Management Information System

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 most appropriate option for each of the following (1 mark each):

- (a). An IoT network is a collection of _____ devices.
- Signal
 - Machine to Machine
 - Interconnected
 - Network to Network
- (b). What kind of personally identifiable health information is protected by HIPAA privacy rule?
- Paper
 - Electronic
 - The spoken word
 - All of the above
- (c). Lawyers, accountants, IT contractors, billing companies, cloud storage services, email encryption services, web hosts etc. fall under the category of:
- Business Associates
 - Covered Entities
 - Both
 - None
- (d). Which of the following is not a standard field value in template creation for clinical documentation when looking for a report extraction:
- Date and Time
 - Radio button
 - Check boxes
 - Long Text
- (e). Technologies that have potential to decrease medication error:
- CPOE
 - eMAR
 - BCMA
 - Smart IV Infusion Pumps
 - All the above

Part B**(Maximum Marks: 15)****Answer the following questions:**

- Q2.** As per Brookshire Hospital policy, during online prescription, it is important to cross check if there is any drug-drug interaction or not. So whenever, any interaction happens between two prescribed drugs, the notification pops up for further clarification. Kindy elaborate on which technology would be integrated in the Hospital Information Management System to showcase the above-mentioned feature. What all other benefits can we have with its integration. (5)
- Q3.** What is the difference between EHR, EMR & PHR? How does an EHR system improve patient care? (5)
- Q4.** Write a short note on the following: (5)
- (a). Cloud Computing
 - (b). HIPAA

Part C**(Maximum Marks: 30)****Answer the following questions, in detail:**

- Q5.** The Operation Theatre is a critical area of the hospital. Therefore, Operation Theatre Management System is an important component of the Hospital Information Management System. As an administrator, you are requested to create a workflow of OT with inclusion of significant features required in OT module. (10)
- Q6.** Explain e-prescribing. How is e-prescription associated with CPOE and CDSS. What are the advantages of adopting e-prescription in healthcare settings? Explain how e-prescription works in an OPD setting with the help of example. (10)
- Q7.** Explain in detail: (10)
- (a). General process of how the HMIS is developed and implemented in hospitals.
 - (b). Relationship of information technology and patient safety