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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – MBA(HM)-2023

Course Name – Hospital Information System & Medical Records

Course Code - MBAHM403

(Semester IV)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Which of the following best describes the System Development Life Cycle ?
 - a) A process used to develop software applications
 - b) A systematic approach to managing the development of information systems
 - c) A framework for hardware procurement
 - d) A method for marketing new products
- (ii) What is the purpose of conducting a feasibility study in the System Development Life Cycle?
 - a) To determine if the project is economically and technically viable
 - b) To identify potential risks and threats to the project
 - c) To develop a detailed project plan
 - d) To create a prototype of the system
- (iii) Choose from the following options: The advantage of using the Agile methodology over the Waterfall methodology in the SDLC is _____.
 - a) Agile is more cost-effective, and Waterfall is faster.
 - b) Agile allows for flexibility and adapts to changing requirements, while Waterfall follows a strict sequence of phases.
 - c) Agile requires less collaboration among team members, while Waterfall encourages close cooperation.
 - d) Agile is suitable for small projects, and Waterfall is better for large-scale projects.
- (iv) Choose from the following options: If a project team encounters unexpected technical challenges during the implementation phase of the SDLC, recommended action will be _____.
 - a) Proceed with the implementation as planned to meet deadlines.
 - b) Revert to the planning phase and start over.
 - c) Consult with stakeholders and adjust the project plan accordingly.
 - d) Terminate the project to avoid further complications.
- (v) Show from the from the following options: The legal act mandates the maintenance of medical records in the healthcare industry is ____.

- a) Clinical Establishments Act
c) Indian Penal Code
- b) Consumer Protection Act
d) Companies Act
- (vi) How does the maintenance of medical records contribute to legal aspects in healthcare?
- a) By providing evidence in case of legal disputes
c) By facilitating insurance claims
- b) By ensuring patients receive timely treatment
d) By reducing medical expenses
- (vii) Choose:SDLC works by ____ of System development.
- a) Lowering the cost
c) Average in the cost
- b) Higher in the cost
d) None of these
- (viii) Show from the following options: A ' model base ' in a Decision Support System is ____.
- a) The type of software used for a Decision Support System
c) A set of analytical and statistical models to provide guidelines for making decisions
- b) The example on which the Decision Support System is based
d) The type of database management system being used in the Decision Support System
- (ix) What is the primary purpose of a medical record?
- a) Billing purposes
c) Tracking patient care and treatment
- b) Providing guidelines for making decisions
d) Managing staff schedules
- (x) Choose the appropriate options: the advantages and disadvantages of microfilming medical records compared to digital storage are:
- a) Advantages: Reduced storage space; Disadvantages: Limited accessibility
c) Advantages: Long-term preservation; Disadvantages: Vulnerability to physical damage
- b) Advantages: Quick retrieval; Disadvantages: High cost of equipment
d) Advantages: Easy data sharing; Disadvantages: Limited data security
- (xi) How does the electronic health record (EHR) improve patient care?
- a) By decreasing the accuracy of medical information
c) By providing real-time access to patient information
- b) By limiting accessibility to patient data
d) By increasing the time required for medical documentation
- (xii) Choose from the following options: Compare ICD-9 with ICD-10.
- a) ICD-9 is a more detailed coding system used for inpatient records, while ICD-10 is used for outpatient settings.
c) ICD-9 uses numeric codes only, whereas ICD-10 incorporates alphanumeric codes.
- b) ICD-10 is a more comprehensive coding system with a larger number of codes compared to ICD-9
d) ICD-9 is the current standard coding system, while ICD-10 is an outdated system.
- (xiii) Show from the following options: the advantages of a standardized medical record format.
- a) Easier for patients to understand their own medical history.
c) Reduces the workload for medical record officers.
- b) Ensures consistency and completeness of information for better care.
d) Allows for faster processing of insurance claims
- (xiv) Choose the primary reason for maintaining medical records as per legal requirements:
- a) For patient entertainment
c) For accurate documentation, legal compliance, and patient safety
- b) To ensure proper billing and insurance claims
d) To increase hospital revenue
- (xv) Prove the impact of HIPAA and GDPR in protecting patient data:
- a) Enforce strict data privacy laws and limit unauthorized access
c) Allow patient data sharing without restrictions
- b) Reduce security measures in hospitals
d) Restrict patient access to their own records

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Group-B
(Short Answer Type Questions)

3 x 5=15

2. Demonstrate two key benefits of using decision support systems in organizations. (3)
3. What is a Hospital Information System (HIS)? (3)
4. What is privileged communication in medical records? (3)
5. Evaluate the advantages and challenges of computerizing medical records (EHR/EMR) in healthcare facilities. (3)
6. Compare the legal documentation requirements for electronic vs. paper-based medical records. (3)

OR

Justify the role of EHR audit trails in ensuring legal accountability in healthcare. (3)

Group-C
(Long Answer Type Questions)

5 x 6=30

7. What are the major types of information system in hospitals? (5)
8. Prove that the Medical Records Department (MRD) contributes to hospital efficiency, legal compliance, and patient safety. Provide examples of its critical functions. (5)
9. "ICD codes are used for various purposes, including clinical documentation, billing and reimbursement, epidemiological surveillance, and health policy development."-Justify the statement. (5)
10. Demonstrate the concept of Retention of medical records. (5)
11. "The Medical Records is used either as a personal or an impersonal document"-Justify the statement. (5)
12. Prove that data security measures like encryption and restricted access prevent healthcare fraud and data breaches. (5)

OR

Compare the impact of HIPAA (USA) and GDPR (EU) regulations on the protection of medical data. (5)

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