



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – MBA(HM)-2022

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) 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.
- (iii) 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.
- (iv) Show from the following options: How often should medical records be updated to comply with statutory requirements?
- a) Quarterly b) Annually
- c) Whenever there is a patient visit d) At the discretion of the healthcare provider
- (v) Choose from the following options: HIPO stand for
- a) Hierarchy input process output b) Hierarchy input plus output
- c) Hierarchy plus input process output d) Hierarchy input output Process

- (vi) Choose from the following options: DSS is most widely used in the ____, analysis in an organization.
- a) Planning
b) Support
c) System maintenance
d) All of these
- (vii) Choose from the following options: Which of the following statements about Decision Support Systems is false?
- a) Decision Support System makes decisions automatically with limited user input required.
b) A user of a Decision Support System should have some knowledge of the subject matter but does not have to be a specialized data analyst.
c) Decision Support Systems are often used for problems where the conditions are uncertain.
d) Decision Support Systems use both data sets and analytical models to facilitate decision making.
- (viii) What is the importance of ICD-10 and ICD-11 in medical record coding?
- a) They provide guidelines for indexing and filing medical records
b) They facilitate electronic health record (EHR) implementation
c) They standardize the classification of diseases and medical procedures
d) They are used for microfilming medical records
- (ix) Show from the following options: the concept of medical transcription
- a) Indexing and filing medical records
b) Transcribing handwritten medical notes into electronic format
c) Microfilming medical records for storage
d) Conducting medical coding for billing purposes
- (x) How does the medical record department contribute to hospital planning and design?
- a) By overseeing the construction of new hospital buildings
b) By providing input on the layout of medical record storage areas
c) By coordinating staff training programs
d) By managing hospital finances
- (xi) Why is the format of medical records important in healthcare facilities?
- a) It determines the font size used in medical records
b) It standardizes the organization of patient information for easy retrieval
c) It dictates the color of the medical record covers
d) It regulates the type of ink used for writing medical notes
- (xii) Choose from the following: The impact of coding standards such as ICD-10 on medical record management is
- a) ICD-10 increases the risk of data loss
b) ICD-10 standardizes the classification of diseases and procedures, facilitating record retrieval and analysis
c) ICD-10 decreases the efficiency of medical record officers
d) ICD-10 limits accessibility to records
- (xiii) Show from the following options: Microfilming contribute to the long-term preservation of medical records
- a) By increasing the risk of physical damage
b) By reducing data security
c) By preserving records in a compact format
d) By limiting accessibility to records
- (xiv) Compare and contrast the functions of medical record officers and medical transcriptionists.
- a) Both manage hospital staff schedules
b) Both oversee patient care
c) Medical record officers index and file records, while medical transcriptionists transcribe medical notes
d) Medical record officers conduct medical procedures, while medical transcriptionists manage hospital finances
- (xv) 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.
b) ICD-10 is a more comprehensive coding system with a larger number of codes compared to ICD-9

- c) ICD-9 uses numeric codes only, whereas ICD-10 incorporates alphanumeric codes. d) ICD-9 is the current standard coding system, while ICD-10 is an outdated system.

Group-B
(Short Answer Type Questions) 3 x 5=15

- 2. Evaluate the importance of computerization of medical records in health care delivery. (3)
- 3. What is a Hospital Information System (HIS)? (3)
- 4. What is the importance of medical records to physician? (3)
- 5. Determine the potential challenges associated with ensuring data accuracy and security within an EIS. (3)
- 6. Explain the role of HIS in facilitating the management of patient information within a hospital. (3)

OR

Explain the role of a HIS in enhancing patient safety and quality of care (3)

Group-C
(Long Answer Type Questions) 5 x 6=30

- 7. Assess the potential impact of artificial intelligence on the future of Decision Support Systems. Provide examples to support your evaluation. (5)
- 8. What is Integrated Medical records? (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. Assess the importance of data integrity and confidentiality in healthcare information systems. (5)
- 11. List down the essential components of a legally compliant medical record. (5)
- 12. Explain the potential benefits of integrating a HIS with other clinical and administrative systems within a hospital. (5)

OR

Explain the significance of data security in the context of Hospital Information Systems. (5)
