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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – BBA(HM)-Hons-2023

Course Name – Healthcare Management Information System

Course Code - BHM40201

(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) What is the main difference between data and information?
 - a) Data is processed, information is raw
 - b) Data is raw, information is processed
 - c) Both are the same
 - d) Information does not depend on data
- (ii) What does data contain?
 - a) Raw facts and figures
 - b) Organized and meaningful details
 - c) Only numbers
 - d) Final conclusions
- (iii) Outline the categories of medical records and diagnostic reports from the following options.
 - a) Clinical Information
 - b) Administrative Information
 - c) Strategic Information
 - d) Operational Information
- (iv) Interpret the type of information used for managing internal functions like planning and organizing.
 - a) Strategic Information
 - b) Clinical Information
 - c) Administrative Information
 - d) Financial Information
- (v) What is the role of Predictive Analytics in HIS?
 - a) Randomly assign hospital duties
 - b) Forecast patient admission trends
 - c) Eliminate hospital staff
 - d) Increase unnecessary spending
- (vi) Contrast early hospital information management with modern HIS.
 - a) Early systems were fully digital; modern ones are manual
 - b) Early systems had AI; modern ones lack it
 - c) Early systems had better security than modern ones
 - d) Early systems relied on paper-based records; modern ones use digital solutions
- (vii) Classify HIS functionalities into clinical and administrative roles.
 - a) Patient records - Clinical; Billing - Administrative
 - b) Patient records - Administrative; Billing - Clinical

- c) Pharmacy - Administrative; Insurance - Clinical d) None of the these
- (viii) Infer the way, centralized EHR systems improve healthcare.
- a) Reducing data security b) Improving accessibility
 c) Removing patient records d) Increasing manual entry
- (ix) Choose the best security practice for EHR protection.
- a) Open access for all b) Data encryption and authentication
 c) Allow only printed files d) Manual file storage
- (x) What is the primary function of wearable devices in healthcare?
- a) Entertainment b) Remote patient monitoring
 c) Data encryption d) Communication with hospitals
- (xi) The use of Speech recognition in healthcare is explained as:
- a) Generating patient notes b) Diagnosing illnesses
 c) Prescribing medication d) Conducting surgeries
- (xii) Choose the main purpose of input design in a healthcare system.
- a) To store patient data permanently b) To generate medical reports
 c) To ensure accurate data collection d) To display billing details
- (xiii) Name the tool that helps automate data entry in a healthcare system.
- a) Paper forms b) Telephones
 c) Handwritten records d) Barcode scanners
- (xiv) Classify the key elements of online dialogue design in healthcare systems.
- a) Appointment scheduling, patient records, security b) Random input fields, unclear navigation, no security
 c) Confusing layout, missing data, slow responses d) Irrelevant pop-ups, excessive steps, weak security
- (xv) Infer the purpose of immediate feedback in online healthcare dialogue design.
- a) Delays the confirmation process b) Helps users verify data entry instantly
 c) Increases errors in scheduling d) Ignores user interactions

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Compare structured and unstructured dialogue design in healthcare systems. (3)
3. Distinguish between Clinical Information Systems (CIS) and Administrative Information Systems (AIS). (3)
4. List three key uses of strategic information in an organization. (3)
5. Interpret the impact of EHR on hospital workflow efficiency. (3)
6. Evaluate the ways telemedicine support chronic disease management. (3)

OR

- Explain in your words some future trends in wireless computing for healthcare. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Why is it important to follow structured steps in developing a hospital management program? (5)
8. Analyze the role of predictive analytics in HIS. How does it help hospitals in resource allocation and improving patient outcomes? (5)
9. Demonstrate the role of a Decision Support System (DSS) in different industries with suitable examples. (5)
10. Explain the future potential of electronic health records. (5)
11. Interpret security concerns in EHR systems. (5)
12. Explain the role of knowledge management in public health. (5)

OR

Determine the ways speech recognition technology transforming healthcare.

(5)

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