

Register No.:

**397**

**April 2024**

*Time – Three hours*  
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.  
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

**PART – A**

1. Write down the problems encountered in healthcare information system.
2. What are the interactive multimedia components used in healthcare information system?
3. What is array?
4. Write about tables in data structure.
5. Write down the need for database.
6. List out the types of databases.
7. Write about the structuring of medical record during admission.
8. Write the benefits of hospital information system.
9. Write down the applications of PACS.
10. Define Telemedicine.

[Turn over.....

PART – B

11. (a) Explain the components of health care information system.  
(Or)  
(b) Explain about the history and evolution of electronic resources in health care.
12. (a) Explain the following:  
(i) Queues  
(ii) Trees  
(iii) Stacks  
(Or)  
(b) Explain about singly and doubly Linked Data.
13. (a) Explain the architecture of DBMS with necessary diagram.  
(Or)  
(b) Explain the following data modelling approaches:  
(i) Relational  
(ii) Hierarchical  
(iii) Network
14. (a) Explain the responsibilities of IT team for structuring medical records for keeping treatment history.  
(Or)  
(b) Discuss about the importance of electronic medical records in hospital information system.
15. (a) (i) Explain about the Computerization in Pharmacy and Billing.  
(ii) Explain about Automated Clinical Lab System.  
(Or)  
(b) Explain the components of picture archival and communication system.

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