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II SEM M. Tech (Medical Informatics) END SEMESTER EXAMINATIONS MAY /JUNE 2023

SUBJECT: Health Information System (BME 5102) Monday May 29, 2023; Time 9.30am-12.30pm

TIME: 3 HOURS MAX. MARKS: 50

Instructions to Candidates:

- 1. Answer ALL questions.
- 2. Draw labeled diagram wherever necessary

Q No.	Question	Marks
1A	Illustrate and explain in detail the different steps involved in the development and implementation of Electronic Medical Records.	4
1B	Explain Health Information Exchange. How is it beneficial to its stakeholders?	3
1C.	Describe the V-Model in SDLC.	3
2A.	Examine the HIPAA standards and their application in data security and protection.	3
2B	Describe the Process of Acquiring an Information System.	3
2C.	Explain the challenges and risks of mHealth adoption.	4
3A.	What is the significance of the Internet of Things (IoT)? What technologies have enabled IoT?	5
3B.	Demonstrate a framework for improving the implementation of mobile health specific to disease screening and treatment.	5
4A.	What is a clinical data warehouse and what are its key features? Justify the role of clinical data warehouses as an effective tool to create intelligence in disease management.	5

4B	Explain about Personal Data Protection Bill, 2019 enacted by the Parliament of India.	5
5A	What is consumer health informatics? Summarize the technology integration required in consumer health informatics.	4
5B	Discuss the steps for EHR implementation.	3
5C	What is HL7?	3