

089



**THE OPEN UNIVERSITY OF SRI LANKA  
FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF MEDICAL LABORATORY SCIENCES  
ACADEMIC YEAR 2019/2020 – SEMESTER II**

**BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS  
MDU5211 – HEALTHCARE INFORMATICS  
FINAL EXAMINATION**

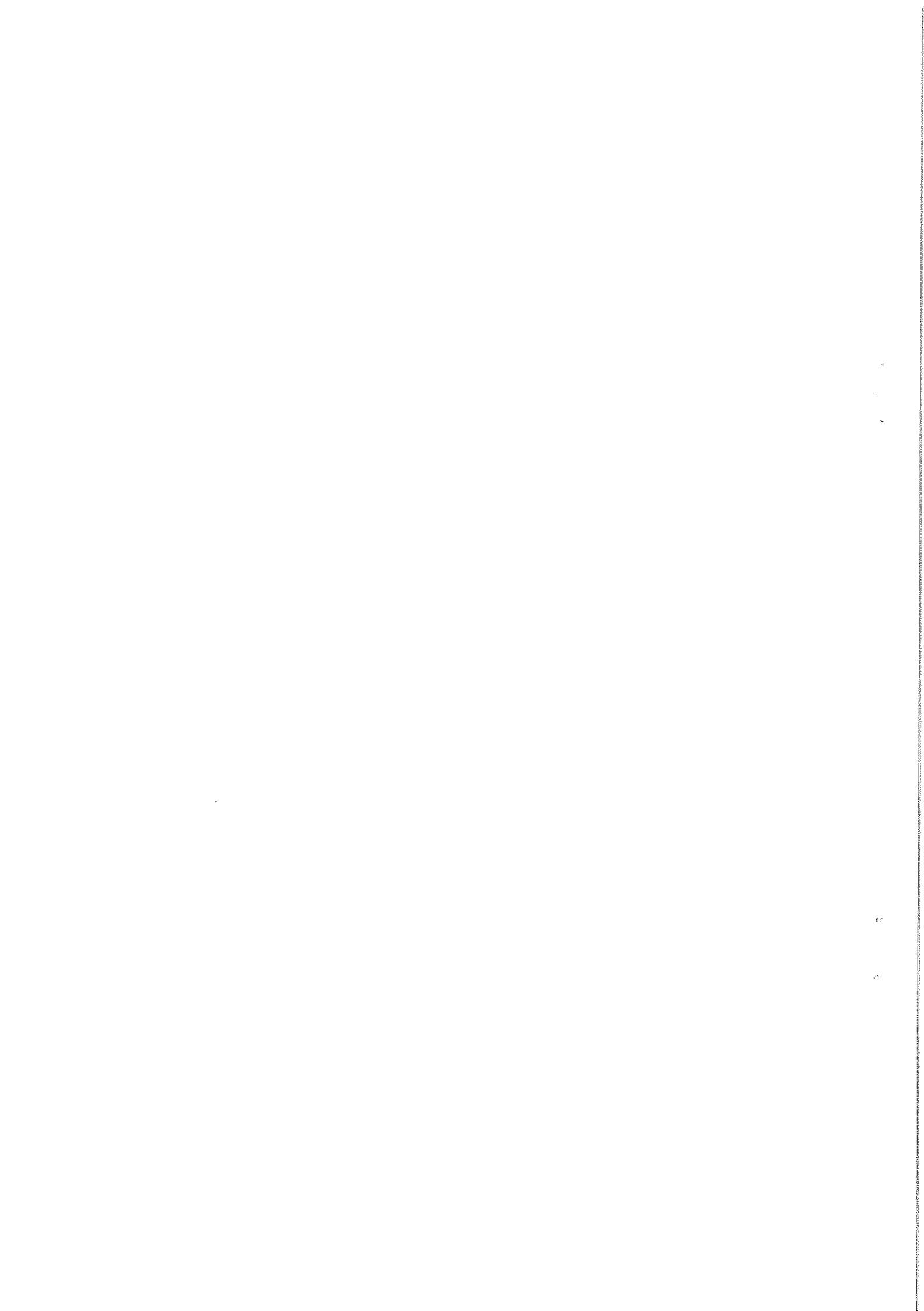
**DURATION: TWO HOURS**

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**DATE: 6<sup>th</sup> MAY 2021**

**TIME: 09.30 AM – 11.30 PM**

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**Part B: Structured Essay Questions (60 marks)**

**Q1.** Healthcare Informatics is the intersection of multiple disciplines and enables healthcare organizations to automate some of the work of decision making, cost control, and improve the quality of patient care.

1.1 Define what is Healthcare Informatics. (2.5 Marks)

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1.2 List five (05) current and new trends in Healthcare Informatics. (05 Marks)

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5. ....

1.3 List five (05) important components of a hospital information system (HIS). (05 Marks)

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1.4 Briefly discuss health information systems and related-regulations in Sri Lanka.

(7.5 Marks)

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(Total 20 Marks)

**Q2.** Health Information Systems of many organizations face the challenge of protecting their information systems from potential threats.

2.1 State what is meant by the term “Information Security”? (03 Marks)

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2.2 Briefly discuss the importance of electronic health information security in a medical laboratory setting? (05 Marks)

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**INDEX NO:** .....

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**2.3 List five (05) recommendations of National eHealth Guidelines and Standards (NeGS) (Version 1.0) published by Ministry of Health, Sri Lanka to ensure information security in healthcare services. (06 Marks)**

- 1.....
- 2.....
- 3.....
- 4.....
- 5.....

**2.4 Briefly discuss three (03) human threats for health data by giving examples. (06 Marks)**

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**(Total 20 Marks)**

**INDEX NO:** .....

**Q3.** Write short notes on following topics.

3.1 Basic computer competencies of Medical Laboratory Technologists (05 Marks)

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3.2 Ergonomics in using computers in the workplace (05 Marks)

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3.3 Electronic Medical Record (EMR) vs Electronic Health Record (EHR) (05 Marks)

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**INDEX NO:** .....

### 3.4 Functions of a standard Laboratory Information Management System (LIMS) (05 Marks)

**(Total 20 Marks)**

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**Part C: Essay Question (20 marks)**

**Q1.** Explain how does the linking laboratory information management system (LIMS) and hospital information management system (HIMS) improve the healthcare delivery in tertiary care hospitals, Sri Lanka?

**(20 Marks)**

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