THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
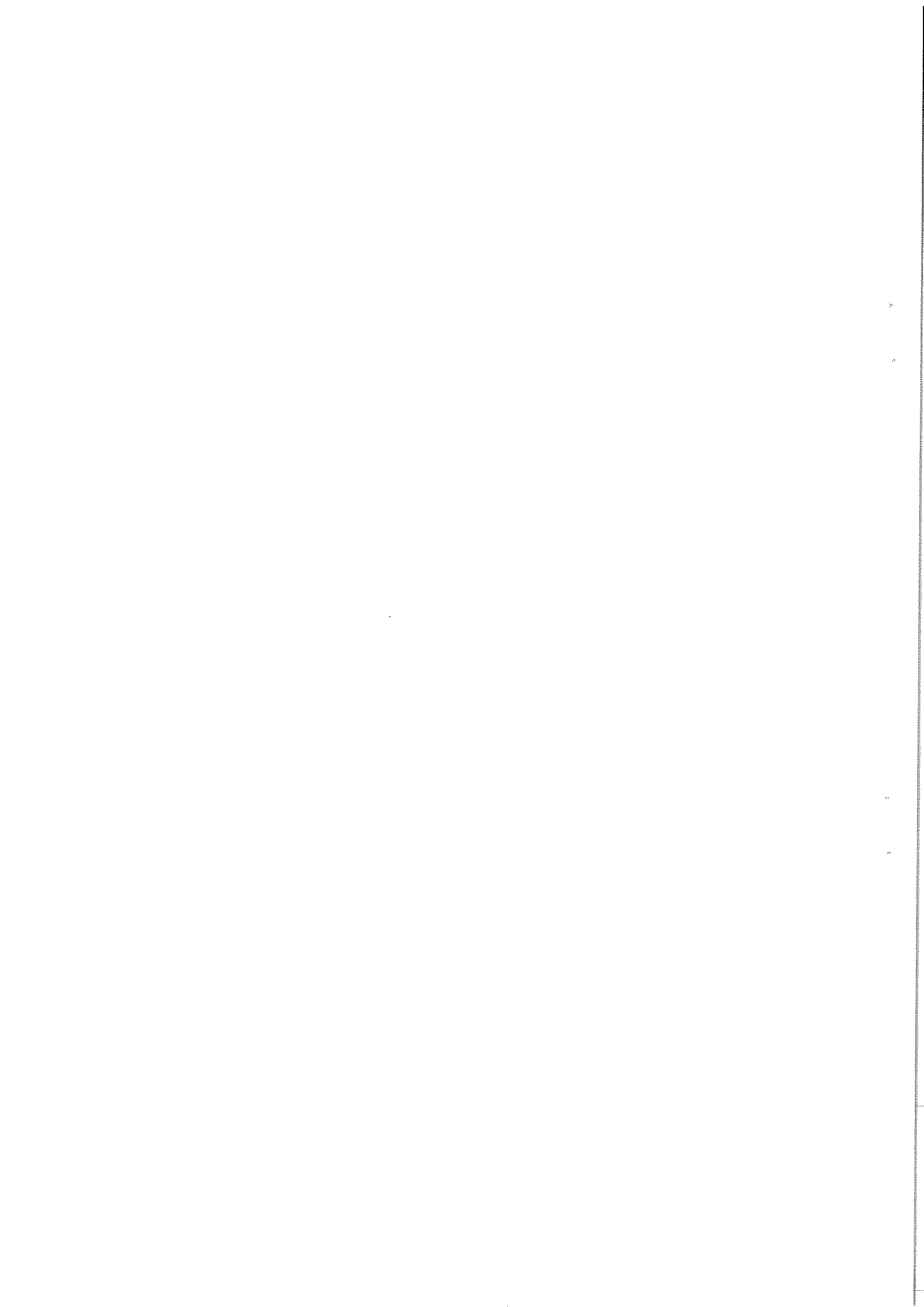ACADEMIC YEAR 2018/2019 – SEMESTER II

BACHELOR OF MEDICAL LABORATORY SCIENCE HONOURS
MDU5211- HEALTH CARE INFORMATICS
FINAL EXAMINATION

DURATION: TWO HOURS

DATE: 27th NOVEMBER 2019   TIME: 9.30 AM – 11.30 AM

Part B: Structured Essay Questions (60 marks)

Q1

A hospital is planning to implement a laboratory information management system (LIMS) within next few months. You as the chief medical laboratory technologist (MLT) is one of the key stakeholders in this project.

1.1   List FIVE (05) other key stakeholders in this project.   (05 Marks)

     i.   ....

     ii.   ....

     iii.   ....

     iv.   ....

     v.   ....

1.2 List FIVE (05) advantages in using electronic LIMS giving examples.   (05 Marks)

     i.   ....

           ....

     ii.   ....

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     iii.   ....

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     iv.   ....

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     v.   ....

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1.3 Briefly outline the functions of LIMS.   (05 Marks)

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1.4 List THREE (03) responsibilities of chief MLT in implementing the LIMS in the hospital.

(03 Marks)

i. ....

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ii. ....

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iii. ....

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1.5 Briefly outline THREE (03) disadvantages of using LIMS in the hospital.　(02 Marks)

i. ....

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ii. ....

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iii. ....

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(Total – 20 Marks)

Q2

Write brief notes on following topics giving examples.

    a. Decision support systems.   (05 Marks)

    b. Health information exchange.   (05 Marks)

c. Ergonomics in using laboratory information management system (LIMS) in a standard hospital laboratory. (05 Marks)

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d. Natural threats to health information security of a laboratory information management system (LIMS). (05 Marks)

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(Total– 20 Marks)

Q3

A leading private hospital is planning to implement laboratory information management system (LIMS) project in next 3 year expanding to all the field laboratories and collecting centres.

3.1 List **THREE (03)** challenges in implementing this project.　　　　(03 Marks)

　　i.　　..

　　ii.　　..

　　iii.　　..

3.2 List **FIVE (05)** strategies to manage the challenges mentioned above.　　(05 Marks)

　　i.　　..

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　　ii.　　..

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　　iii.　　..

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　　iv.　　..

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　　v.　　..

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3.3 The hospital intends to link the LIMS generated information of a patient to his clinical information, captured in hospital information management system (HIMS). Explain briefly how to link LIMS information to the correct patient in HIMS.   (05 Marks)

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3.4 List **THREE (03)** strategies to increase the adoption of the LIMS by the collecting centres.   (03 Marks)

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ii.   ....
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iii.   ....
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3.5 Briefly outline FOUR (04) indicators that can be displayed in the LIMS dashboard.

(04 Marks)

i. ....

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ii. ....

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iii. ....

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iv. ....

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(Total– 20 Marks)

Part C: Essay Question (20 marks)

1. "Ensuring laboratory information management system (LIMS) generated data quality and security is a responsibility of medical laboratory technologist (MLTs)". Discuss this statement giving examples. (20 marks)

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