00037

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
NO BOOK TEST 2 DURATION: ONE HOUR

DATE: 20th AUGUST 2019 TIME: 09.00 AM – 10.00 AM

REGISTRATION NO: .....

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of **13 pages** with **10 Multiple Choice Questions (Part A), 02 Structured Essay Questions (Part B) and 01 Essay Question (Part C).**
- Write your Registration Number in the space provided.
- Answer **ALL** questions.
- **Multiple Choice Questions (Part A):** Indicate answers in the answer sheet provided by placing a cross (X) in **INK** in the relevant cage. (answers in pencil will **NOT** be marked)
- **Structured Essay Questions (Part B):** Write answers within the space provided.
- **Essay Question (Part C):** Answer all the question on the provided papers.
- Do not remove any page/part of this question paper from the examination hall.
- Mobile phones and any other electronic equipment are **NOT** allowed. Leave them outside.

Registration No..... 00037

Name:	.....
Address:	.....
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Registration No.....

Part B: Structured Essay Questions (80 marks)

Q1.

Health data analysis is one of the key elements in health information management process. You are requested to develop a report on quarterly laboratory tests conducted by the hospital on following aspects.

A- Total number of tests performed

B- Average turnaround time for to conduct FBC (Full Blood Count)

1.1 List **FOUR (04)** types of health data analysis. (8 Marks)

i. .....

ii. .....

iii. .....

iv. .....

1.2 List **THREE (03)** types of health data visualizing methods. (6 Marks)

i. .....

ii. .....

iii. .....

1.3 Outline how you are planning to collect data to prepare the report on the aspect A and B mentioned above. (16 Marks)

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1.4 List **THREE (03)** challenges in collecting information to calculate average turnaround time to conduct FBC for the above report. (6 Marks)

i. .....

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ii. .....

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iii. .....

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1.5 Outline **TWO (02)** strategies to overcome the challenges mentioned in 1.4. (4 Marks)

i. .....

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ii. .....

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Total – 40 Marks

Q2.

The 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.

2.1 List **FIVE (05)** advantages of using electronic LIMS giving examples. (10 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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2.2 List **THREE (03)** disadvantages and/or problems in using electronic **LIMS.** (6 Marks)

i. .....

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ii. .....

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iii. .....

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2.3 List **THREE (03)** responsibilities of MLTs in implementing the LIMS in the hospital. (6 Marks)

i. .....

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ii. .....

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iii. .....

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2.4 Briefly outline the functions of LIMS. (10 Marks)

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2.5 Briefly describe Computerized Provider Order Entry (CPOE). (8 Marks)

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Total – 40 Marks

Part C: Essay Question (10 marks)

1. "Health information security is a responsibility of all the health care professionals".

Discuss this statement using your knowledge on health information security concepts. The answer should also highlight the reasons why health information security is considered important, its challenges, types of information security threats and how the threats could be minimized.

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NO BOOK TEST 2

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ANSWER SHEET FOR PART A

1.	a	b	c	d
2.	a	b	c	d
3.	a	b	c	d
4.	a	b	c	d
5.	a	b	c	d
6.	a	b	c	d
7.	a	b	c	d
8.	a	b	c	d
9.	a	b	c	d
10.	a	b	c	d

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