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THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES

ACADEMIC YEAR 2022/2023 – SEMESTER II
BACHELOR OF MEDICAL LABORATORY SCIENCES (BMLS) HONOURS
MDU4303 – CLINICAL BIOCHEMISTRY II – LEVEL 4
FINAL EXAMINATION

DURATION: 03 HOURS

DATE: 06TH SEPTEMBER 2023

TIME: 09.00 AM – 12.00 NOON

INDEX NO:

PART B – Structured Essay Questions (40 marks)**Q1**

1.1. List four (04) examples for conditions where decreased albumin can be observed in a densitometry pattern of normal resolution serum protein electrophoresis. (02 marks)

- i.
- ii.
- iii.
- iv.

1.2. Give one (01) type of protein present in each of the following regions of normal resolution serum protein electrophoresis. (03 Marks)

- 1.2.1. α 1-Globulin region:
- 1.2.2. α 2-Globulin region:
- 1.2.3. β -Globulin region:

1.3. Briefly explain the possible results of serum electrophoresis of a subject with nephrotic syndrome with the aid of an illustration. (05 Marks)

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(Total: 10 Marks)

[illegible]

Q3

3.1. List four (04) hormones that involve in female reproduction? (02 Marks)

- i.
- ii.
- iii.
- iv.

3.2. List three (03) methods can be used to evaluate the ovulation. (03 marks)

- i.
- ii.
- iii.

3.3. Briefly describe the changes of hormone levels mentioned in 3.1 during the menstrual cycle with an aid of an illustration. (05 marks)

[illegible]

(Total: 10 Marks)

4.2. Provide one (01) example of method of assessments for each biochemical measure mentioned. (2.5 marks)

4.3. Outline the methods of measurement of apolipoproteins and the significance of measurement of apolipoproteins. (05 marks)

This image shows a full page of a handwriting practice worksheet. It features approximately 20 horizontal rows. Each row is defined by two parallel dotted lines, creating a series of uniform gaps for letter height. The paper is otherwise blank, with no margins, text, or other markings.

(Total: 10 Marks)

PART C – Essay Question (30 Marks)

1. Write an essay on “electrophoresis in determination of protein concentration of serum/ plasma”. (15 Marks)
2. Write an essay on “influence of site of collection and haemolysis on blood composition”. (15 Marks)

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