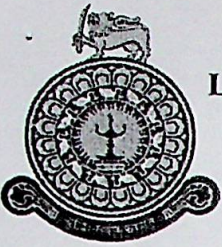


INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO
DEGREE OF BACHELOR OF UNANI MEDICINE AND SURGERY
LEVEL I BUMS FIRST SEMESTER (3rd SUPPLEMENTARY) EXAMINATION
JANUARY 2023



AS 1102 - PHYSIOLOGY

Date: 13.01.2023
Time: 09.45AM – 12.15PM

Index No

Answer all questions.

Part I - Structured Questions

1.
1.1 Name the steps of urine production (02 Marks)

.....
.....
.....

1.2 Briefly explain the above-mentioned steps (02 Marks)

.....
.....
.....
.....

1.3 Name four molecules/ substances which can pass through the filtration membrane of the kidney (02 Marks)

.....
.....
.....

1.4 List hormones which are secreted by the kidney (02 Marks)

.....
.....

02.

2.1 Name the two components of the enteric nervous system and mention where they are found in the GIT (02 Marks)

.....

2.2 List four hormones which act on GIT and mention their origin and function (02 Marks)

.....

.....

2.3 List the stomach glands (01 Mark)

.....

.....

2.4 Mention three functions of colon (01 Mark)

.....

.....

03.

3.1 What is hypoxic hypoxia? (01 Mark)

.....

.....

3.2 Give three characteristic features of above hypoxia (1.5 Marks)

.....

.....

3.3 Give three causes for above hypoxia (1.5 Marks)

.....

.....

3.4 What is dehydration? (01 Mark)

.....

.....

3.5 What is volume depletion? (01 Mark)

.....

.....

3.6 Give 5 important clinical signs of dehydration

(02 Marks)

.....
.....

04.

4.1 Mention the role of liver in maintain blood glucose

(01 Mark)

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.....
.....

4.2 How Na⁺ helps in glucose absorption?

(01 Mark)

.....
.....

4.3 What are the main lipids in our diet?

(01 Mark)

.....
.....

4.4 What are the types of fatty acids?

(01 Mark)

.....
.....

4.5 Why emulsification is needed in lipid digestion?

(01 Mark)

.....
.....

4.6 What are Lipoproteins?

(01Mark)

.....
.....

05.

5.1 Give 4 urine constituents that can be tested by dipsticks

(02 Mark)

.....
.....

5.2 Define the following terms

(04 Marks)

- a. Proteinuria:.....
- b. Haematuria:.....
- c. Ketonuria:
- d. Glucosuria:
- e. Pyuria:
- f. Polyuria:
- g. Oliguria:
- h. Anuria:

06.

6.1 Define the following terms

a. Pulmonary ventilation

(1.5 Marks)

.....
.....

b. Alveolar ventilation

(1.5 Marks)

.....
.....

6.2 List the functions of haemoglobin

(02 Marks)

.....
.....
.....

6.3 How O₂ is carried in the arterial blood?

(01 Mark)

.....
.....

Part II – Essay Questions

01.

- 1.1 List out the divisions of body fluids (04 Marks)
- 1.2 Explain the mechanism of tissue fluids formation in the body (08 Marks)
- 1.3 Name three (03) fractions of Extracellular fluid (03 Marks)
- 1.4 Explain the mechanism of lymph formation in the body (05 Marks)

02.

- 2.1 Explain the mechanism of inspiration and expiration (08 Marks)
- 2.2 Explain the following (06 Marks)
 - a. Tidal volume
 - b. Vital capacity
 - c. Residual volume
- 2.3 What are the changes that can occur in an individual in high altitude (06 Marks)

13.01.2023
