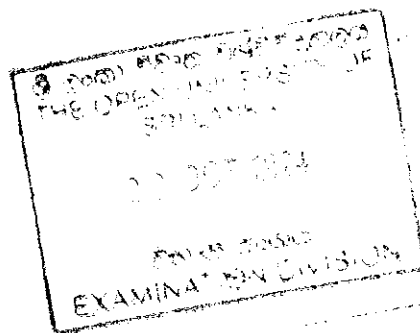


THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF BASIC SCIENCES
ACADEMIC YEAR 2023/2024 – SEMESTER 02
BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS



BSU4245 – HUMAN PHYSIOLOGY – LEVEL 04
FINAL EXAMINATION

DURATION: TWO HOURS

DATE: 22nd OCTOBER 2024

TIME: 1.30 P.M- 3.30 P.M

Part B- Structured Essay Questions

(40 marks)

Write answers in the spaces provided.

1) a.

I. Describe haemostasis. (5 marks)

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II. Describe the different steps of haemostasis. (5 marks)

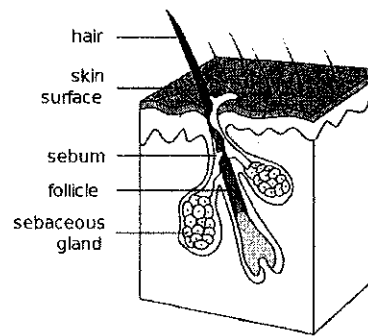
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b. Shown below is a drawing of the skin.



List two functions of skin in relation to the structures show in the diagram. (2 marks)

I.

II.

c.

I. List the hormones produced by the thyroid gland and give their main function. (6 marks)

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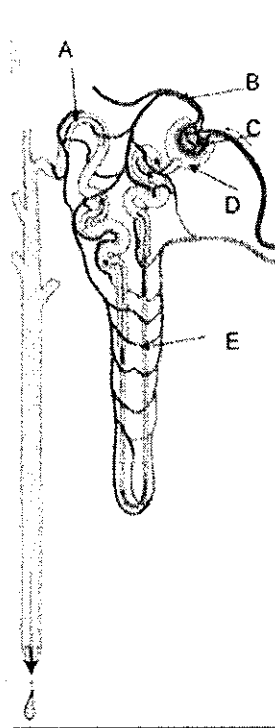
II. List the two hormones that play an important role during childbirth and lactation and one function for each. (2 marks)

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2) a.

I. Identify the labelled parts of a nephron in the diagram. (5 marks)

- A:
B:
C:
D:
E:



II. Name two main functions for each of the following. (2 marks)

i. urinary bladder

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ii. urinary sphincter

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b.

I. List two hormones produced by the pancreatic islets and give one function for each of them (2 marks)

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II. What are the two types of bile? (4 marks)

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c.

I. Outline the pathway of a sound entering the ear and producing a nerve impulse in the inner ear. (4 marks)

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II. Name the three components of connective tissue. (3 marks)

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Part C- Essay Questions

(40 marks)

Answer All Questions.

Write answers in the books provided.

1.

a. Describe the parts, location and function of the cardiac conduction system. (10 marks)

b. Describe the main parts of the human nervous system. (10 marks)

2.

a. Describe features of the inflammatory response and its results. (10 marks)

b. Explain the role of the pituitary gland in the control of other endocrine glands. (10 marks)