

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS- LEVEL 03
MLU1142-ANATOMY AND PHYSIOLOGY
FINAL EXAMINATION

INDEX NO:

Part B –Short Answer Questions

(40 marks)

Write answers in the space provided.

2.1 Define the term “cardiac output”. *[5 marks]*

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2.2 Briefly explain the role of surfactant in the lung alveoli. *[10 marks]*

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2.3 Write a brief account on the structure of a skeletal muscle fibre. [10 marks]

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2.4 Draw clearly labelled diagrams that show the changes in the blood levels of follicle stimulating hormone (FSH), luteinizing hormone (LH), oestrogen and progesterone that occur during a 28 day menstrual cycle

[10 marks]



2.5 Draw a clearly labelled diagram that shows the structure of a typical neuron.

[5 marks]



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Part C –Essay Questions

(30 marks)

Answer only two (02) questions out of the three (03) questions.

Write answers in separate sheets.

1. Describe the structure and functions of following organelles in a typical mammalian cell.

- A. Mitochondrion
- B. Lysosome
- C. Ribosome

[15 marks]

2. Describe the mechanisms that prevent blood loss when a blood vessel is damaged.

[15 marks]

3. Explain the role of the pancreas in digestion, absorption and metabolism of carbohydrates.

[15 marks]

-End-



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