



Date: NOVEMBER 2022

Time: 2 ½ Hours

Mark: 100

INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

1. Answer ALL questions.
2. Write ALL the answers in the provided FDS or FAFDS.
3. Write a GPM after each question.
4. Start each section in a NEW page.
5. Number the answers correctly according to the numbering system used in the question paper.
6. Present your answers according to the instructions for each question.
7. Do ALL drawing in pencil and label them in blue pens.
8. Draw diagrams in blue ink only when asked to do so.
9. The diagrams in the question paper are NOT to draw to scale.
10. You may use a scientific calculator, calculator, protractor and compass.
11. You may NOT use graph paper.
12. Write neatly and legibly.

EXAM AGREEMENT

I, _____ (Name of Candidate), Class _____

hereby acknowledge that I will abide by all examination rules stipulated below during the writing of my LIFE SCIENCE exam.

RULES

1. I will not bring any electronic equipment into the examination hall (phones, smart watches and calculators).
2. I will not leave my desk after the start of the exam.
3. I will be treated as a cheater.

I declare, as above and with me, written agreement and consent.

Learner Signature _____

SECTION A**Question 1**

- 1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write only the letter (A-D) next to the question number (1.1.1 to 1.1.10) on the FDS or FAFDS, for example 1.1.1 D.

- 1.1.1 Which ONE of the following hormones controls metabolic rate?

- A. Testosterone
- B. Thyroxine
- C. Growth hormone
- D. Insulin

- 1.1.2 An extract from a gland of an adult monkey was injected into the bloodstream of a young monkey. It caused the young monkey to grow abnormally tall. From which gland was the extract obtained?

- A. Hypothalamus B. Adrenal gland
- C. Hypophyseal/Posterior pituitary gland D. Pituitary

- 1.1.3 The hormone that regulates the amount of salt in the blood

- A. Aldosterone B. Renin
- C. Endocrine glands D. Adrenocortical

- 1.1.4 It is the process of maintaining a constant internal environment within narrow limits, despite changes that take place internally and externally.

- A. Homeostasis
- B. Metabolism
- C. Reproduction
- D. Osmosis

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Michael Hoelscher



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