**APPLECROSS SENIOR HIGH SCHOOL**

**Human Biology Unit 3**

**TEST 3: ENDOCRINE SYSTEM**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Marks: MC /20 Written: /30**

**PART B: Short answer (write your answers in the spaces provided) TOTAL /50**

1. Parts (a), (b) and (c) refer to the diagram below.

a) Identify the gland that secretes aldosterone.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1 mark)

b) (i) Gland B is the pituitary gland. Describe the process leading to the secretion of hormones from the anterior lobe into the blood stream

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(3 marks)

(ii) Explain why the posterior lobe is **not** considered to be an endocrine gland.

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c) Adrenal glands (F) have two distinct parts, the medulla and the cortex. Describe two differences between these glands.

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| Adrenal Medulla | Adrenal Cortex |
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(2 marks)

d) (i) Glands D and C produce hormones which are antagonistic. Explain what this means using these hormones as an example.

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(2 marks)

(ii) The hormones from gland C and D have the same effectors. List the effectors and for each describe the effect produced by the hormone from gland C.

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(3 marks)

(iii) Name one other gland shown in the diagram which secretes antagonistic hormones. Name the hormones secreted and describe their functions.

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(3 marks)

2. Question 2 refers to the following diagram.



a) A and B are types of hormone

(ii) Identify each type and give one example.

A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (4 marks)

(iii) Describe two differences between the actions of the hormones.

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**PART C: Extended answer.**

The ovarian cycle is an example of an endocrine feedback loop. Describe this statement using the sequence of events and the hormonal changes that occur during the ovarian cycle in a non-pregnant woman. (8 marks)

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