**Endocrine System Quiz** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mark: \_\_\_\_\_\_/15

**Multiple Choice Section (4 marks)**

1. The target organ for the hormone calcitonin is the

(a)  parathyroid gland.

(b)  adrenal gland.

(c)  bones.

(d)  liver.

Diagram

Description automatically generatedQuestions 2-4 refer to the diagram below

2. Which part of the brain is shown as Z in the diagram?

(a)  hypothalamus

(b)  cerebrum

(c)  brain stem

(d)  medulla oblongata

1. X and Y represent the two lobes of the pituitary gland. A target organ for hormones released from lobe Y is the

(a)  thymus.

(b)  thyroid gland.

(c)  ovaries.

(d)  uterus.

4. Which of the following **correctly** lists hormones only released from lobe X

(a)  Follicle Stimulating Hormone, Adrenocorticotropic Hormone, Growth Hormone, Oxytocin

(b)  Thyroid Stimulating Hormone, Prolactin, Luteinising Hormone, Thyroxin

(c)   Antidiuretic Hormone, Luteinising Hormone, Thyroid-Stimulating Hormone, Growth Hormone

(d)   Prolactin, Adrenocorticotropic Hormone, Thyroid-Stimulating Hormone, Luteinising Hormone

**Short Answer Section (11 marks)**

**Diagram

Description automatically generatedQuestion Five (5 marks)**

1. Identify the endocrine gland that
   1. secretes the hormone aldosterone (1)

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(ii) secretes the hormone that increases the metabolic rate in cells (1)

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1. Explain how structures A and B in the diagram on the previous page are involved in the production and release of antidiuretic hormone (ADH) (3)

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**Question Six (3 marks)**

In the outline below, draw an annotated diagram of the mode of action of **lipid-soluble hormone.**

Graphical user interface, application

Description automatically generated

**Question Seven (3 marks)**

Cushing’s syndrome, otherwise known as hypercortisolism, is a disease caused by prolonged exposure to excessive levels of cortisol. It is often cause by a tumour growing on the pituitary gland that alters its normal hormonal secretions. Patient’s with Cushing’s syndrome can have many different symptoms, including high blood pressure, weight gain, depression, memory dysfunction and bone and muscle weakness.

A patient with Cushing’s syndrome had a large pituitary tumour.

1. (i) Which lobe of the pituitary gland would the tumour have affected? (1)

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(ii) Which pituitary hormone would have had its secretion altered by the tumour? (1)

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1. Treatment for Cushing’s syndrome may require the removal of part of the pituitary gland or adrenal gland. Removing the affected endocrine gland may eliminate the high levels of cortisol; however, it can create other problems. Identify **one** such problem. (1)

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