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**YEAR 12 ATAR** **HUMAN BIOLOGY**

TASK 1 – Endocrine Dysfunction Validation task (20 marks)

**QUESTION 1**

Answer the following questions in relation to **the non-thyroid** endocrine dysfunction disorder you have researched.

1. Name the endocrine gland (be specific), the hormone involved, the role the hormone normally plays in homeostasis of the body, and whether the disorder is caused by an under secretion or over secretion of that hormone.

(4 marks)

1. Explain one of the main symptoms of the disorder and relate it to the normal activities of the hormone involved.

(2 marks)

1. Outline one cause of the disorder and explain how this affects the secretions of the endocrine gland.

(2 marks)

1. Give one treatment for the disorder and explain how this relates to the cause.

(2 marks)

**QUESTION 2**

Mary Jones had been feeling unwell for some months and was not able to cope with everyday activities. She had noticed that her neck was getting thicker, preventing her from buttoning her shirts. She visited her doctor, who after a physical examination and blood tests, diagnosed low thyroid activity, or hypothyroidism.

1. Imagine you are Mary’s doctor and you are explaining how the thyroid gland works. Provide a description of the thyroid hormone feedback loop.

(6 marks)

1. Later that week, Mary is talking with her friends about her medical experience. A friend mentions that one of her family members has a thyroid disease. The doctor called it ‘hyperthyroidism’.

For either hypothyroidism or hyperthyroidism, outline **one (1)** cause, **two (2)** signs or symptoms and **one (1)** treatment.

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