**HUMAN BIOLOGY – YEAR 12**

**TASK 2 – ENDOCRINE SYSTEM DISORDERS EXTENDED RESPONSE**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MARK:\_\_\_\_\_ /57**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ WEIGHTING: 10%**

**Hormone replacement therapies can be used for the treatment of endocrine disorders to help improve the quality of life of affected individuals.**

This task is presented in two parts.

**Part A: Research phase** (22 marks)

Research and take notes on a number of conditions relating to endocrine system disorders and the use of hormone replacement therapies. These notes will be handed in prior to completing Part B.

**Part B: In-class validation**  (35 marks)

Write responses to short answer style questions. You will not see these questions prior to sitting the in-class validation. This part is to be completed under test conditions.

**Part A – Research**

1. (a) Research and take notes on the following hormones that are used in the body to regulate metabolism: thyroxine, cortisol, growth hormone and adrenaline. Research should include for each:

* The role of the hormone in the body (4 marks)
* How it secreted and controlled in the body. Include a feedback loop diagram.

(4 marks)

* What happens and conditions caused by too much or little of the hormone (4 marks)
* Hormone replacement therapies that can be used to treat the conditions  
  caused by the imbalance of the hormone (4 marks)
* How treatments improve quality of life (4 marks)

**(20 marks)**

(b) You also need to provide a reference list/bibliography. Hand this in as a separate sheet attached to your note-taking sheet. You must include at least four references. If you do not provide a reference list of at least four references you will lose **3 marks** overall.

2. You will also receive 2 marks for handing this in on the correct due day  **(2 marks)**