**UNIT 1** **ATAR HUMAN BIOLOGY**

**Task 2 – Factors That Affect Body Function Extended Response**

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

**DUE DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MARK: \_\_\_\_ /41 =**

* **Part 1**: one week to research topic and complete notes. These are to be handed in **prior** to the in-class validation.
* **Part 2:** one hour for in-class validation comprised of extended response exam style questions.

## **Factors affecting the functioning of the human body research assignment**

During a person’s life, the Lifestyle choices they make, including being active or sedentary, the use of drugs and type of diet, can compromise body functioning in the short term and may have long-term consequences which could lead to such things as system or organ dysfunction. Over the years, the treatment of conditions caused by system or organ dysfunction has changed through improvements in early diagnosis and appropriate use of drugs, physical therapy, radiation therapy, and removal and/or replacement of affected parts.

**Part 1: Research notes (4 marks) *(7% weighting)***

Carry out research on the following conditions that affect the functioning of body systems and organs and the treatment of such conditions. Prepare a set of notes on the information covering the points in the table. The notes should be no more than **two sides of A4** and will be marked on content and organisation.

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| --- | --- | --- | --- |
|  | **Name of condition to be researched** | | |
| **Research Question** | **Atherosclerotic Disease** | **Heart arrhythmia** | **Asthma** |
| Causes  Explanation of how the person could have developed the disease (causes). | **Clipart - Green <strong>tick</strong> - simple** | Include both types – bradycardia and Tachycardia | **Clipart - Green <strong>tick</strong> - simple** |
| Physiology  Description of the disease and its effects on the body. | **Clipart - Green <strong>tick</strong> - simple** | **Clipart - Green <strong>tick</strong> - simple** | **Clipart - Green <strong>tick</strong> - simple** |
| Symptoms  Symptoms a person may have if they have the disease. | **Clipart - Green <strong>tick</strong> - simple** | **Clipart - Green <strong>tick</strong> - simple** | **Clipart - Green <strong>tick</strong> - simple** |
| Diagnosis  Explanation of how the main methods used to diagnose the disease are carried out. This should include observations, simple tests, two simple scans and two complex procedures. | Scans and tests | Types of scan used to diagnose | Types of tests and what they show |
| Treatment  Explanation of the treatment methods available and their effects. Research should include medical treatments, surgical treatments and lifestyle treatments/changes. | Medication, surgery and lifestyle change | For both main types – surgery, implants, medical procedures | Types of inhalers, spacers and nebulisers. |

## Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(37 marks)**

## **Factors affecting the functioning of the human body research assignment**

**Part 2: In-class assessment *(93% weighting)***

* You will be given specific examination style questions based on the topic you have researched.
* Notes will not be allowed for this task.

**Questions:**

1. Joe is a morbidly obese truck driver. Though he has never smoked, and has always avoided drugs, his rotating diet of service station meat pies, cream horns and mountain dew are starting to take a toll on his body. In an effort to lose weight for summer, Joe decided to start going for treadmill runs at his local gym. 10 minutes into his first run, Joe fainted due to a lack of oxygen reaching his brain.

Explain two possible reasons Joe was not able to get enough oxygen to his brain. (4 marks)

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1. Joe is suspected of having atherosclerosis, if he went to the doctor there are several types of tests that could be carried out to establish if he had the disease and how advanced it was. Discuss the differences in information gained from carrying out a simple stress test to carrying out an electrocardiogram. Include in your answer how these procedures are carried out. (6 marks)

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1. Bypass surgery and stents are often used to treat people with Atherosclerotic disease. Choose one of the methods and explain what happens during the procedure and how it helps the person with the condition. (4 marks)

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1. Explain why a lifestyle change must also accompany surgical treatments in patients recovering from Atherosclerotic Disease. (2 marks)

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1. State two symptoms a person with asthma would exhibit. (1 mark)

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1. Asthma affects many people’s lives from young to old. Explain why an asthma sufferer struggles when it comes to performing aerobic exercise for lengthy periods of time. (4 marks)

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1. State one method of diagnosing asthma. (1 mark)

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1. There are several treatments available on the market for asthma sufferers. Describe one type of treatment and explain how it works. (2 marks)

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1. There are two main types of heart arrhythmia, bradycardia and tachycardia. Explain the differences between the two types of disease in terms of how they affect the heart and the effects they would have on an individual. (4 marks)

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10. State one method of diagnosing asthma. (1 mark)

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11.There are several different types of treatments available for people with both types of heart arrhythmia. Discuss one surgical procedure that could be carried out for each type of heart arrhythmia. In your discussion include what is involved with the treatment and how it will help the person with the condition. (8 marks)

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