

**Year 11 ATAR Human Biology**

**Task 3: Lifestyle Choices Musculoskeletal System**

**Extended Response**

Time Allocated: 50 minutes

Weighting 7.5%

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Question 1** | **Question 2** | **Question 3** | **Total** |
| /8 | /8 | /10 | /26 |

Comments:

**Answer the following 3 questions below ensuring to include full detail and sentence structure in your responses. You can choose how to structure your answer and may include labelled diagrams or tables if appropriate.**

**1)** After 30 years of age a person’s bones begin to gradually deteriorate. Explain the **two effects** of aging on the skeletal system. In your answer discuss the **treatments** and **symptoms** available for each. (8 marks)

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**2)** Using examples, explain **four** types of movement that occur at a joint. (8 marks)

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**3) List** the components of myofibrils and **describe** their structure. Use these terms to **explain** muscular **contraction** and **relaxation** using the sliding filament model. (10 marks)

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**END OF ASSESSMENT**