Name Date Due: Friday 31st May 2019

**HUMAN BIOLOGY YEAR 11 ATAR**

**TASK 6 EXTENDED RESPONSE: OSTEOPOROSIS & OSTEOARTHRITIS**

**VALIDATION TEST ON DUE DATE.**

1. In Australia, as in many industrialised countries, there is an increase in the incidence of osteoporosis and osteoarthritis, associated with our increasingly aging population.

Compare and contrast the diseases osteoporosis and osteoarthritis.

Consider

* What is happening in each disease
* The structures affected
* The symptoms seen
* How the symptoms relate to the structures that are affected
* Causes or lifestyles that increase the risk of these diseases
* Treatments or lifestyle choices that can be used to prevent, treat or reduce symptoms of the disease
* Methods used to diagnose the condition

2. Medical technology has led to an increase in choices in treatments for those suffering problems with the musculoskeletal system including physical therapies, drug therapies and surgery.

Explain what is involved in the following treatments:

* Physiotherapy
* Use of steroids
* Use of non-steroidal anti-inflammatory drugs (NSAIDs)
* Joint reconstruction
* Joint replacement

Consider:

* What is involved in the treatment
* What diseases or problems it is used for
* Any problems, side effects or contraindications of the treatment

***PLEASE NOTE: YOU WILL NOT BE GIVEN A MARK FOR YOUR RESEARCH – ONLY THE VALIDATION TEST. YOU MUST SUBMIT YOUR RESEARCH NOTES AT THE TIME OF THE VALIDATION TEST TO INDICATE THAT YOU HAVE SENT TIME RESEARCHING THE TASK.***