Year 11 Human Biology

Extended **Response** – Body Systems

Answer **ALL** of the following questions on the lined paper provided.

**Question 1.**

Construct an appropriate table to compare osteoporosis and osteoarthritis. In your table address the following factors for each disease:

* Possible causes
* Resulting disabilities
* Prevention
* Management of each disease.

(9 marks)

**Question 2.**

Coronary heart disease is a major cause of death in the western world.

**Figure 1** shows an external view of a human heart with a blood clot in one of the main coronary arteries.



1. Explain why a blood clot is a coronary artery is likely to result in a heart attack.

(3 marks)

1. Three important risk factors associated with coronary heart disease are cigarette smoking, high blood pressure and a high plasma cholesterol level. Explain how each of these factors increases the risk of heart attack.

(6 marks)

1. Over the past 30 years, a decline in deaths from cardiovascular disease in Australians has occurred. Discuss two reasons that explain why these changes to our lifestyle may have occurred.

(2 marks)