Human Services

2012 HSC - Human Services Band 4/5 Sample 1 Question 16

Section II

35 marks Attempt Questions 16–20 Allow about 50 minutes for this section

Answer the questions in the spaces provided. These spaces provide guidance for the expected length of response.

Question 16 (6 marks)

- (a) Define the terms anatomy and physiology.

 Anatomy is the structure of the human body.

 Including what it is made up of e.g. bores,

 Organs, muscles. Physiology is how all

 these structures work together eg. the
 cardiovasular system and how it works.
- (b) *Homeostasis* is a term that describes the state of physiological balance within the body.

Provide an example of homeostasis and explain how it works.

Homeostasis is the process by which organisms can maintain a relatively stable internal environment. For example, in humans, we are bodies use homeostasis to maintain a constant body temperature. The ideal temperature for a human is approx. 37°C, and our body exists beeps this stable even when the external temperature charges. It is only during sickness, when our internal temperature may change.

This