## 2012 HIGHER SCHOOL CERTIFICATE EXAMINATION Human Services

2012 HSC - Human Services Band 3/4 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.  The term anatomy defines the structure and function
	of body systems; where as physiology to the deals with the mechanics of an individual e-g-
	walking around wies muscles and bonesm or the process of body functions egg pumping blood around body.
(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.  An example of homeostasis would be the use
	of regulatory cells. These cells perform such actions when an individual is either too hot
	or cold. Receptor cells manipulate body functions
	such as making skin cells rise to trap warm air "goosebungs" or to graduce sweat to coal them
	down. If this action doern't work it becomes negative feedback and further actions are undertaken