

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*. 2

Anatomy is the study of blood and  
physiology is the study of muscles.

- (b) *Homeostasis* is a term that describes the state of physiological balance within the body. 4

Provide an example of *homeostasis* and explain how it works.

Homeostasis occurs when the body is hot and for homeostasis to take place the body produces sweat to let off some steam through the use of sweat glands. This then allows the body to cool down with the sweat being a barrier to keep the heat away from the body.