FOUNDATION

1.2 Organisation: 10-minute Pack

AQA 8461 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Which organ in the human body pumps blood and has four chambers? Give the name.

(Total for Question 1 is 1 mark)

2 Name the organ system that transports substances such as glucose and oxygen around the body.

(Total for Question 2 is 1 mark)

3 A student looks at plant cells and animal cells under a microscope. State one visible difference between a typical plant cell and a typical animal cell.

(Total for Question 3 is 1 mark)

4 A teacher gives students a model showing four main types of tissues in the stomach. One type is epithelial tissue which lines the inside surface. State one function of epithelial tissue in the stomach.

(Total for Question 4 is 1 mark)

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5 A student measures heart rate by counting beats in 30 seconds and then multiplying by 2 to get beats per minute. They count 36 beats in 30 seconds. Calculate the heart rate in beats per minute.

(a) Show the working and give the heart rate. **(2)**

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(Total for Question 5 is 2 marks)

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6 Explain why arteries have thicker walls than veins.

(Total for Question 6 is 2 marks)

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Mark scheme · 1.2 Organisation: 10-minute Pack

Question 1

heart cao **B1**

Answer: heart

Question 2

the circulatory system (accept cardiovascular system) **B1**

Answer: the circulatory system

Question 3

plant cells have a cell wall or chloroplasts or a large central vacuole, animal cells do not, oe **B1**

Answer: Plant cells have a cell wall or chloroplasts or a large central vacuole; animal cells do not.

Question 4

protects underlying tissues or secretes mucus or secretes digestive juices, oe **B1**

Answer: To protect underlying tissues or to secrete mucus or digestive juices.

Question 5

(a) method: converts 30 s count to per minute by multiplying by 2 or uses 60/30 x 36 **M1**

(a) 72 beats per minute cao **A1**

(a) Answer: 72 beats per minute

Question 6

states arteries carry blood at higher pressure than veins **M1**

says thicker muscular and elastic walls help withstand higher pressure and maintain fast flow, oe **A1**

Answer: Because arteries carry blood at higher pressure, so they have thicker muscular and elastic walls to withstand the higher pressure and help maintain fast blood flow.

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