

Level 3 Cambridge Technical in Health and Social Care 05831/05832/05833/05871

Unit 4: Anatomy and physiology for health and social care

Wednesday 7 June 2017 – Afternoon Time allowed: 2 hours

You must have: none		
You may use:		
• none		

First Name	Last Name										
Centre Number							Candi Numb				
Date of Birth	D	D	M	M	Υ	Υ	Υ	Υ			

INSTRUCTIONS

- Use black ink.
- Complete the boxes above with your name, centre number, candidate number and date of birth.
- Answer all the questions.
- · Write your answer to each question in the space provided.
- If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.

INFORMATION

- The total mark for this paper is **100**.
- The marks for each question are shown in brackets [].
- Quality of extended responses will be assessed in questions marked with an asterisk (*).
- This document consists of 20 pages.

	AMINER ONLY
Question No	Mark
1	/14
2	/16
3	/26
4	/14
5	/30
Total	/100

Answer all questions.

(a)	Samantha has asthma.
	Describe what is happening in the bronchi and bronchioles during an asthma attack.
(b) ³	* Certain triggers can increase the chance of an asthma attack.
	Explain how Samantha could avoid these possible triggers.

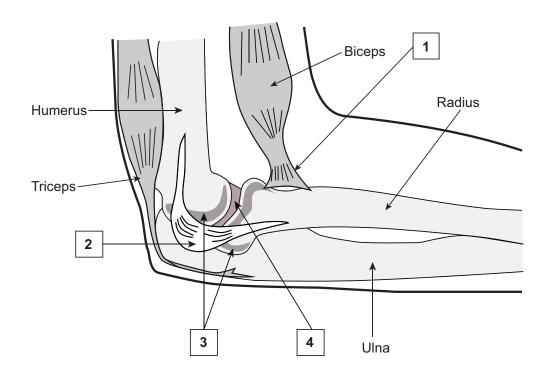
(c)* Explain the monitoring and treatment that will help Samantha to cope with her asthma.	
	[61

2 (a)	identity a function for each of the following parts of the digestive system.
	Salivary glands:
	Epiglottis:
	Large intestine:
	Rectum:
	[4]
(b)	Identify two functions of pancreatic juice.
	1
	2
	[2]
(c)	Molly and Pamela are sisters and both have been diagnosed with digestive malfunctions. Molly has gallstones and Pamela has IBS (Irritable Bowel Syndrome).
	(i) Identify two possible causes of Molly's gallstones.
	1
	2
	[2]

((ii)	Identify two possible effects of the gallstones on Molly.
		1
		2
		[2]
(d)*	Ana	lyse the possible impact of IBS on Pamela's daily life.
		101

3	(a)	(i)	Identify the type of joint found at each of the locations listed below.	
			hip	
			wrist	
				 [2]

(ii) The diagram below shows an elbow joint.

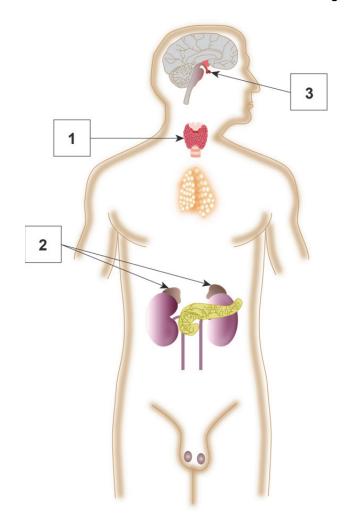


Identify the structures that have been labelled 1-4 in the diagram.

1.	
2.	
3.	
4.	
	[4]

(b)*	Explain how the forearm (represented by the ulna and radius in the diagram on page 6) is raised and lowered.

(c) (i) The diagram below shows the location of human endocrine glands.



Identify the endocrine glands that have been labelled 1-3 in the diagram.

	Gland 1	
	Gland 2	
	Gland 3	
		[3]
(ii)	Name one hormone produced by each of the glands labelled 1-3 in the diagram.	
	Gland 1, hormone produced:	
	Gland 2, hormone produced:	
	Gland 3, hormone produced:	
		[3]
		ΓΩ

(d)*	Explain how the kidney helps regulate the water levels of the body.
	roı

	The humours
	The iris
(b)	
(b)	Pablo has cataracts in both eyes.
(b)	Pablo has cataracts in both eyes. State two effects of cataracts on Pablo's vision.
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(c)	State four measures that Pablo's place of work could take to promote the safety and independence of people with visual impairment.
	1
	2
	3
	4
	[4]

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(d)* Jessie is listening to music.

Explain how the sound of the music reaches Jessie's brain.			

5	(a)	Describe what occurs in the heart during systole and diastole .
		Systole
		Diastole
		[4]
	(b)	Identify two functions of the Sino Atrial (SA) node of the heart.
		1
		2
		[2]

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(c)*	Amrit has been diagnosed with hypertension (high blood pressure). Jackie, the practice nurse, is providing Amrit with health advice. She wants to explain simple measures that Amrit could take to minimise the possibility of developing heart disease and/or experiencing a stroke.
	Explain what measures Jackie could suggest to Amrit.

(d)*	Whilst undergoing routine blood tests as part of monitoring Amrit's cardiac health it was found that his blood sugar levels were high enough to classify him as having diabetes.		
	Explain how the regulation of blood glucose levels is an example of homeostasis.		
	[e1		
	[6]		
(e)	Describe two examples of monitoring Amrit must undertake regularly for diabetes.		
	1		
	2		
	[4]		

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(f)*	Assess the impact diabetes may have on Amrit's daily life.

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional answer space is required, you should use the following lined pages. The question number(s) must be clearly shown – for example 2(b) or 5(a).



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