

NCFE CACHE Level 3 Extended Diploma in Health and Social Care (Adults) (Northern Ireland) (603/5355/7)

NCFE CACHE Technical Level 3 Extended Diploma in Health and Social Care (601/8435/8)

Unit title: Anatomy and physiology for health and social care

Assessment code:HSCNI/SAETime allowed:1 hour 30 minutesPaper number:Past PaperTime:9.00am - 10.30amAssessment date:Wednesday 17 May 20239.00am - 10.30am

Learner instructions

- Use black or blue ink.
- Answer **all** questions.
- Read each question carefully.
- You **must** write your responses in the spaces provided.
- You may do rough work in this answer book. Cross through any work you do not wish to be marked.
- If you use a supplementary answer booklet, you must add your learner name, learner number and centre number to the front cover of the booklet. Insert your supplementary answer booklet inside this question paper at the end of your test.
- All of the work you submit **must** be your own.

Learner information

- The marks available for each question are shown in brackets.
- The maximum mark for this paper is 80.

Do not turn over until the invigilator tells you to do so.

Please complete / check your details below

Learner Name:		
Centre Name:		
Learner Number:	Centre Number:	
Learner Number.	Centre Number.	





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Section A

This section has a possible 20 marks.

Answer all questions in the spaces provided.

- 1 (a) Which one (1) of the following pieces of equipment is used to measure respiratory rate?[1 mark]
 - A Pulse oximeter
 - B Sphygmomanometer
 - C Thermometer
 - D Watch

1

2

3

Answer _____

1 (b) Taking in oxygen is one function of respiration by the lungs.

Identify the other function of respiration.

1 (c) Identify **three (3)** structures of the respiratory system involving the passage of air that are after the trachea.

[3 marks]

|--|

1 (d)	Explain the process of gaseous exchange within the lungs.	[4 marks]
1 (e)	Identify the two (2) muscles of respiration and describe the structure as function of one (1) of these muscles.	
		[5 marks]
	Muscle 1	
	Muscle 2	
	Description of muscle	



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Explain how ventilation is controlled.	[6 marks]
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Section **B**

This section has a possible 20 marks.

Answer **all** questions in the spaces provided.

Charlie is 5-years-old. Charlie's health visitor raised concerns when Charlie showed delay learning to walk, run and ride a tricycle. Charlie has also been prone to falls and trips. Following a referral to a specialist, Charlie has been diagnosed with muscular dystrophy (MD).

2 (a)	Discuss the likely effects	of muscular dystrophy on	Charlie's wellbeing.

[12 marks]





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2 (b)	Two types of movement are available at the elbow joint. One is flexion.
	Identify the other type of movement. [1 mark]
2 (c)	Agonist and synergist are two roles of muscles.
	Identify two (2) other roles of muscles and describe one (1) of these roles of
	muscles. [4 marks]
	Role 1
	Role 2
	Description of role
-	
2 (d)	There are two (2) types of muscle fibres.
	Identify one (1) of these muscle fibre types and explain the function of this muscle
	fibre type. [3 marks]
	Muscle type
	Explanation of function





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Section C

This section has a possible 20 marks.

Answer **all** questions in the spaces provided.

Natalia is a 50-year-old care assistant who works with people in late adulthood. Natalia has recently experienced health problems resulting in her undergoing tests. Following the results of these tests she has been diagnosed with cardiovascular disease.

3 (a) Discuss the likely effects of cardiovascular disease on Natalia's cognitive and emotional wellbeing.

emotional weilbeilig.	[9 marks]
00	



3 (b)	Arteries are a type of major blood vessel that carry blood away from the heart.
	Identify the type of major blood vessel that carry blood to the heart and explain the
	structure of this blood vessel type. [4 marks]
	Type of major blood vessel
	Explanation of structure



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3 (c)	Identify the smallest type of blood vessels and describe these blood vessels. [4 marks]
	Smallest blood vessels
	Description
3 (d)	Identify three (3) valves in the heart. [3 marks]
	1
	2
	3





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Section D

This section has a possible 20 marks.

Answer **all** questions in the spaces provided.

4 (a)	Identify the hormone produced in the ovaries. [1 mark]					
	Α	Insulin				
	в	Oestrogen				
	С	Testosterone				
	D	Thyroxine				
	An	swer				
4 (b)	When the external temperature increases, thermoregulation is used to keep the body cooler.					
		entify three (3) mechanisms that are used to keep the body cooler and explain e function of one (1) of these mechanisms. [5 marks]				
	Me	echanism 1				
	Me	echanism 2				
	Me	echanism 3				
	Ex	planation				
		O'O'				



4 (c)	Identify three (3) ways to use a thermometer to take a person's tempera	ture. [3 marks]
	1	
	2	
	3	
4 (d)	Explain the role of negative feedback in homeostasis.	[6 marks]



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4 (e) Stress can affect physiological measurements.

Identify **four (4)** physiological measurements affected by stress **and briefly** explain the effect that stress has on **one (1)** of these measurements.

[5 marks]

Measurement 1	
Measurement 2	
Measurement 3	
Measurement 4	
Brief explanation	
-	

This is the end of the external assessment.

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To be completed by the examiner							
Question	Mark	Question	Mark				
1 (a)		3 (a)					
1 (b)		3 (b)					
1 (c)		3 (c)					
1 (d)		3 (d)					
1 (e)		4 (a)					
1 (f)		4 (b)					
2 (a)		4 (c)					
2 (b)		4 (d)					
2 (c)		4 (e)					
2 (d)							
		TOTAL MARK					

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