

## 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/SAE**Paper number: **Past Paper**Time allowed: **1 hour 30 minutes**Time: **9.00am – 10.30am** 

Assessment date: Thursday 18 January 2024

#### **Learner instructions**

- Use black ink.
- Answer all questions.
- Read the scenario and 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:





Section A			
This sec	ction	has a possible 20 marks.	
Answer	all c	questions in the spaces provided.	
1 (a)	lde	entify the piece of equipment used to measure temperature.	
		[1 mark]	
	A	Pulse Oximeter	
	В	Sphygmomanometer	
	С	Stethoscope	
	D	Thermometer	
	A	nswer	
1 (b)		lentify the type of consent required to carry out this procedure <b>and</b> describe what meant by this type of consent.  [4 marks]	
		lentificationescription	
		escription	



1 (c)	Statins and inhalers are two medications that have an effect on physiological measurements.
	Identify <b>two (2) other</b> medications that have an effect on physiological measurements <b>and</b> explain the effects on physiological measurements of <b>one (1)</b> of the medications identified.
	[5 marks]
	1
	2
	Explanation
	Question 1 continues on the next page.



1 (d)	Explain failure of homeostatic balance in thermoregulation.	[6 marks]



1 (e)	Identify four (4) structures in the urinary system.	[4 marks]
	1	
	2	
	3	
	4	

Please turn over for the next section.



#### **Section B**

This section has a possible 20 marks.

Answer all questions in the spaces provided.

Noah is a 58-year-old man who works as a receptionist in a busy medical centre. Recently he has felt generally unwell. Following tests by his doctor, Noah has been diagnosed with cardiovascular disease.

aruic	ovasculai disease.
(a)	Discuss the likely effects of cardiovascular disease on Noah's wellbeing.  [12 marks]





(b)	The heart contains <b>four (4)</b> valves that assist it to function correctly.  Name these <b>four (4)</b> valves.	
		[4 marks
	1	
	2	
	3	
	4	
(c)	One circulatory pathway is the systemic pathway.	
	Name the other circulatory pathway and explain the function of this pa	
		[4 marks
	Name	



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Please turn over for the next section.



#### **Section C**

This section has a possible 20 marks.

Answer all questions in the spaces provided.

Chloe is a 20-year-old woman who works as a healthcare support worker. Following a recent holiday abroad, she noticed patches of red and flaky skin all over her body. Following tests with a dermatologist, she has been diagnosed with eczema.

3 (a)	Discuss the likely effects of eczema on Chloe's social and emotional wellbeing.
	[9 marks]



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3 (b)	The subcutaneous is one of the primary layers of the skin.
· ()	Name the <b>two (2) other</b> primary layers of the skin <b>and</b> describe the structure <b>and</b>
	/ or function of one (1) of the layers named.
	[5 marks]
	1
	2
	Description
	9 <u></u>



3 (c)	The ovaries and vagina are two structures of the female reproductive system.
	Name two (2) other structures of the female reproductive system.  [2 marks]
	1
	2
(d)	Name the <b>two (2)</b> hormones produced by the ovaries <b>and</b> explain the function of <b>one (1)</b> of the hormones named.
	[4 marks
	1 2
	Explanation



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Please turn over for the next section.



Section	D		
This sec	tion	has a possible 20 marks.	
Answer	<b>all</b> q	questions in the spaces provided.	
4 (a)	Wh	nich one (1) of the following is a muscle in the human body?	
		[1 ma	rk]
	Α	Femur	
	В	Patella	
	С	Quadricep	
	D	Tendon	
	Ar	nswer	
4 (b)	Na	ne type of muscle is smooth muscle.  ame the other two (2) types of muscle and describe one (1) of the types of uscle named.	
	1 2	[4 mark	(s] 
		escription	—   —   —



4 (c)	Explain how the structures and characteristics of a synovial joint assist its function.
	[6 marks]



(d)	The skeletal system can be separated into two specific sections of skeleton.			
	Name these <b>two (2)</b> sections of the skeletal system.	[2 marks]		
	1			
	2			
(e)	Name the response mechanism activated by stress <b>and</b> explain the eff have on physiological measurements.	fect it can [3 marks]		
	Response mechanism	[o marko]		
	Explanation			



4 (f)	The skin helps the body cool when it gets too hot.			
	Identify <b>two (2)</b> mechanisms in the skin that help the body cool <b>and</b> explain how			
	one (1) of the mechanisms identified achieves this.  [4 marks]			
	1			
	2			
	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 (b)			
1 (b)		3 (c)			
1 (c)		3 (d)			
1 (d)		4 (a)			
1 (e)		4 (b)			
2 (a)		4 (c)			
2 (b)		4 (d)			
2 (c)		4 (e)			
3 (a)		4 (f)			
		TOTAL MARK			



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