

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

Unit title: DM3.1 Anatomy and physiology for health and social care

Assessment code: HSC/SAE Paper number: Past Paper

Wednesday 11 May 2022

### 9.00 am-11.00 am

# Time allowed: 2 hours

### Learner instructions

- Use black or blue ink. If you write your answers in pencil they will not be marked.
- 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.
- 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 100.

Please complete the details below clearly and in BLOCK CAPITALS.

Learner name		
Centre name		
Learner number	Centre number	

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

To be completed by the examiner			
Question	Mark	Question	Mark
1 (a)		3 (d)	
1 (b)		4 (a)	
1 (c)		4 (b)	
1 (d)		4 (c)	
1 (e)		4 (d)	
2 (a)		4 (e)	
2 (b)		5 (a)	
2 (c)		5 (b)	
3 (a)		5 (c)	
3 (b)		5 (d)	
3 (c)		TOTAL MARK	

Answer <b>a</b>	II questions in the spaces provided.	
1 (a)	An individual agrees to receive treatment in the full knowledge of any consequences.	
	What type of consent is this? [1 m	nark]
1 (b)	Body temperature can be measured on an individual's forehead and rectally.	
	Explain <b>two (2) other</b> methods of measuring an individual's body temperature [6 ma	
	Method 1	

Method 2

rks]	Examiner use only

Question 1 continues on the next page.

Explain how levels of activity can affect body temperature.

1 (d) Thermoregulation and glucoregulation are homeostatic mechanisms.

Explain the process of homeostasis.

[6 marks]

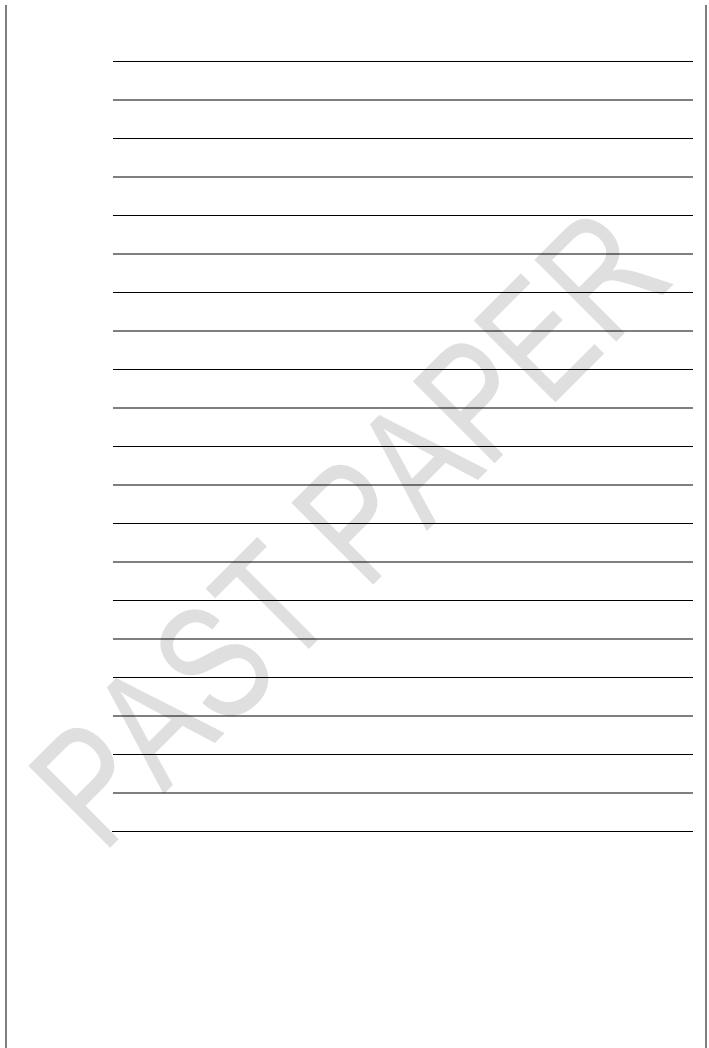
Examiner use only

	[3
Primary hormo	one
Description	
	<b>o (2)</b> valves that separate the atria and ventricles <b>and</b> descri
one (1) of thes	[4
Valve 1	
Valve 2 Description of valve 1	
or 2	
	Question 2 continues on the next page.

2 (b)	Measuring blood pressure gives two readings. One of these readings is diastolic blood pressure.
	Name the <b>other</b> reading of blood pressure <b>and</b> explain the meaning of this reading.
	[4 marks] Blood pressure reading
	Explanation
2 (c)	Analyse how the structure of the respiratory system assists with inhalation and exhalation. [12 marks]
	· · · · · · · · · · · · · · · · · · ·

7 Please turn over

3 (a)	Identify the general term for the small components that make up a cell, <b>and</b> describe these components. [3 marks]
	Name of components
	Description of components
3 (b)	Monitoring and assisting diagnosis are two reasons for the accurate and timely recording of physiological measurements.
	Identify <b>two (2) other</b> reasons for the accurate and timely recording of physiological measurements <b>and</b> explain <b>one (1)</b> of these reasons. [4 marks]
	Reason 1
	Reason 2 Explanation of reason 1 or 2
2 (0)	Explain how mediaction may affect physiclegical measurements
3 (c)	Explain how medication may affect physiological measurements. [9 marks]



3 (d)	Explain the process of mechanical digestion. [4 marks]
4 (a)	Which structure in the female reproductive system produces egg cells?
	Describe one (1) other function of this structure. [3 marks]
	Structure
	Function

4 (b)	Explain the process of semen production. [6 marks]
4 (c)	The subcutaneous is a layer of the skin.
	Identify the <b>two (2) other</b> layers of skin.
	[2 marks]
	Layer 1
	Layer 2

4 (d)	Explain the process of excretion within the integumentary system. [6 marks]

4 (e)	Identify <b>and</b> describe the component of the skin that detects changes external temperature.	s to the
		[3 marks]
	Component	
	Description	
5 (2)	Identify the <b>two (2)</b> actions of antagonistic muscle pairs <b>and</b> briefly c	escribe <b>one</b>
5 (a)	(1) of these actions.	
		[3 marks]
	Action 1	
	Action 2 Brief description of action 1 <b>or</b> 2	
5 (h)	Agonist and antagonist are relea of muscles	
5 (b)	Agonist and antagonist are roles of muscles. Identify <b>one (1) other</b> role of muscles <b>and</b> explain this role.	
		[4 marks]
	Role	
	Explanation of role	

5 (c)	Discuss how the structure of the appendicular skeleton assists body movement. [9 marks]

5 (d)	The ribs and sternum are components of the axial skeletal sy	/stem.
- ()		

Identify **one (1) other** component of the axial skeletal system **and** describe the function of this component.

[4 marks]

Component

Description of function

This is the end of the external assessment.

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