

# 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: P001444

## Tuesday 18 January 2022 9.00 am-10.30 am

Time allowed: 1 hour 30 minutes

#### Learner instructions

- Use black or blue ink. If you write your answers in pencil they will not be marked.
- Answer all questions.
- 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 80.

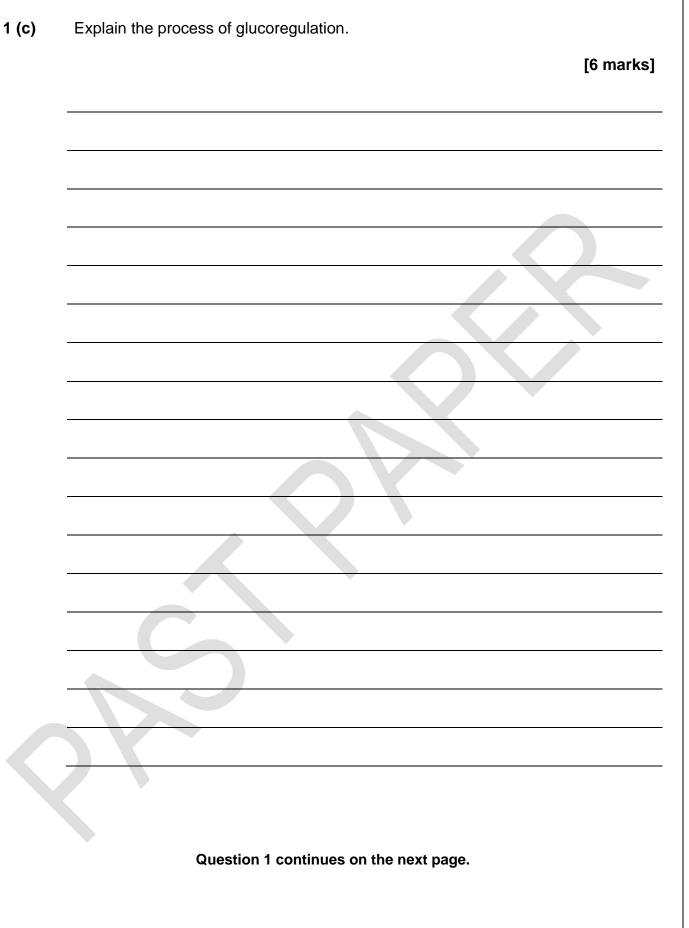
Please complete the details below clearly and in BLOCK CAPITALS.

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 (a)	
1 (b)		3 (b)	
1 (c)		3 (c)	
1 (d)		3 (d)	
1(e)		4 (a)	
2 (a)		4 (b)	
2 (b)		4 (c)	
2 (c)		4 (d)	
2 (d)		4 (e)	
		TOTAL MARK	

Section /	
	n has a possible 20 marks.
Answer all	questions in the spaces provided.
1 (a)	Height is used to calculate an individual's Body Mass Index (BMI).
	What other measurement is used to calculate BMI?
	[1 mark]
1 (b)	Biological sex, hormones and age can affect an individual's Body Mass Index (BMI).
	Identify <b>three (3) other</b> factors that can affect BMI <b>and</b> describe how <b>one (1)</b> of the factors you have identified can affect BMI.
	[6 marks]
	Factor 1
	Factor
	Factor 2
	Factor 3
	Description of how a factor can affect BMI.



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4 (a)	Identify the primery error involved in glucere gulation and evaluin the structure of
1 (d)	Identify the primary organ involved in glucoregulation <b>and</b> explain the structure of this organ.
	[4 marks]
	Organ
	Explanation of
	the structure
1 (e)	The kidney is a component of the excretory (urinary) system.
	Identify the three (3) other components of the excretory (urinary) system.
	[3 marks]
	1
	2
	3

## Section B

This section has a possible 20 marks.

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

Amelia has recently attended a well woman clinic for a health check-up. Following tests, Amelia was informed that she has Human Immunodeficiency Virus (HIV).

**2 (a)** Which of the following is the name given to a bacterium, virus, or other microorganism that can cause disease?

[1 mark]

- A Antibody
- B Antigen
- **C** Lymph
- D Pathogen

Answer

Question 2 continues on the next page.

2 (b)	Discuss the likely effects of Human Immunodeficiency Virus (HIV) on Amelia's wellbeing.
	[12 marks]

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: (c)	Describe the location and structure of the thymus.
(0)	[3 marks]
	Question 2 continues on the next page.

**2 (d)** B cells and phagocytes are types of lymphocytes.

Identify the **other** type of lymphocyte **and** explain the function of this lymphocyte. [4 marks]

Identification of other	
type of lymphocyte	

Explanation of function
of this lymphocyte

## Section C

This section has a possible 20 marks.

Answer all questions in the spaces provided.

Jacob has been experiencing problems with his skin recently. Following a referral to a dermatologist, Jacob was diagnosed as having eczema.

**3 (a)** Discuss the likely effects of eczema on Jacob's wellbeing.

[9 mark	s]
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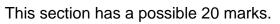
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		6
)	Identify the <b>three (3)</b> primary layers of the skin.	[3 ma
	1	
	2	
	3	
	Identify <b>three (3)</b> structural components found in the middle layer of s briefly explain <b>one (1)</b> of these structural components.	kin <b>and</b> [4 ma
	briefly explain <b>one (1)</b> of these structural components.	
	briefly explain <b>one (1)</b> of these structural components.	

1	
2	
3	
Brief description	
of one function	
Please turn over for the next section.	

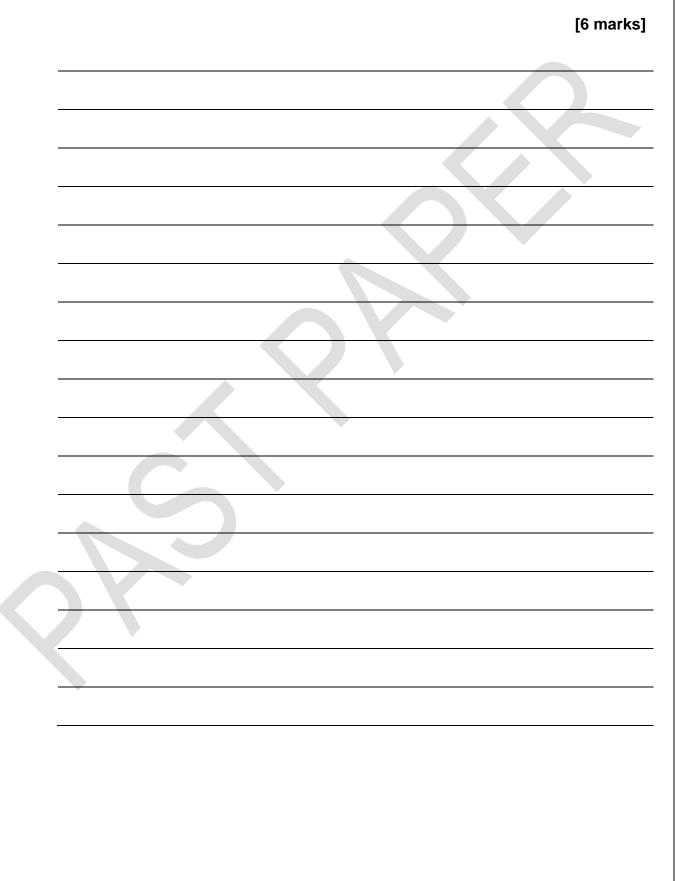
# Section D

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

## **4 (a)** Discuss the structure and function of long bones within the skeletal system.



#### [1 mark]

[5 marks]

- A Femur
- **B** Humerus
- **C** Scapula
- D Skull

Answer \_\_\_\_\_

**4 (c)** Storage of calcium and production of blood cells are two functions of the skeletal system.

Identify three (3) other functions of the skeletal system and explain one (1) of the functions that you identified.

1	
2	
3	
Ex the	planation of e function

Question 4 continues on the next page.

(d)	Fibrous and cartilaginous are two types of joint.
	Identify and describe the other type of joint.
	[3 marl
	Joint
	Description of
	Description of the joint
(e)	Identify the <b>three (3)</b> types of muscle <b>and</b> describe <b>one (1)</b> of these types of muscle.
	[5 marl
	1
	2
	3
	3
	Description
	Description of one type

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