



Rewarding Learning

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2025

Centre Number

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Candidate Number

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Health and Social Care

Assessment Unit AS 7

assessing

Understanding the Physiology of
Health and Illness



[SHC71]

SHC71

TUESDAY 3 JUNE, MORNING

TIME

2 hours

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page or on blank pages.

Complete in black ink only. Do not write with a gel pen.

Answer **all three** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 100.

Quality of written communication will be assessed in questions **2(b)(iii)**, **3(a)(v)** and **3(b)**.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.



1 (a) The human body is composed of cells and tissues.

Write down the name and explain the function of each of the following cells and tissues.



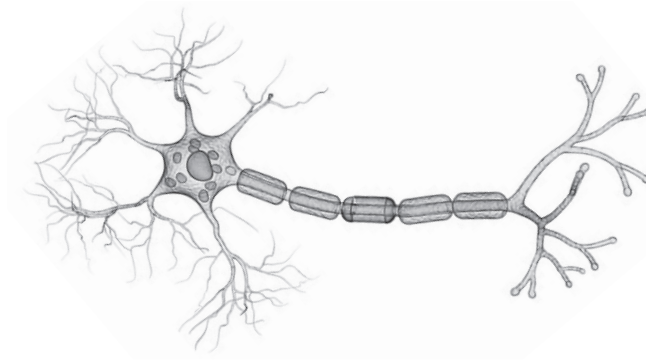
Source: © Getty Images

(i) Name _____ [1]

Function _____

_____ [2]



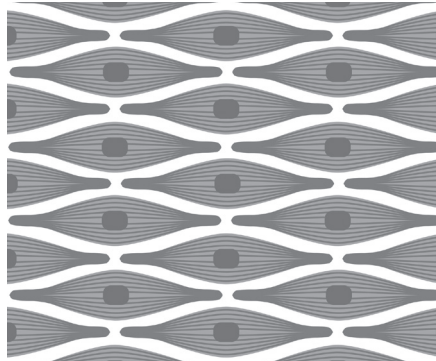


Source: © Pixologicstudio / Science Photo Library

(ii) Name _____ [1]

Function _____

_____ [2]



Source: © Getty Images

(iii) Name _____ [1]

Function _____

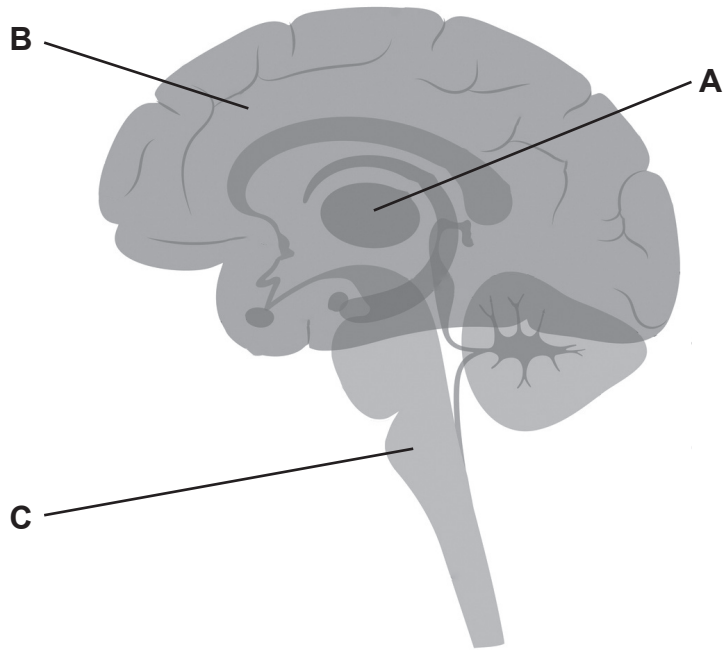
_____ [2]

[Turn over



(b) (i) This is a diagram of the brain.

The brain is an example of an _____ . [1]



Source: © Getty Images

(ii) Identify the parts labelled **A**, **B** and **C** and describe the functions of each part.

A _____ [1]

Functions _____

_____ [3]





B _____ [1]

Functions _____

_____ [3]

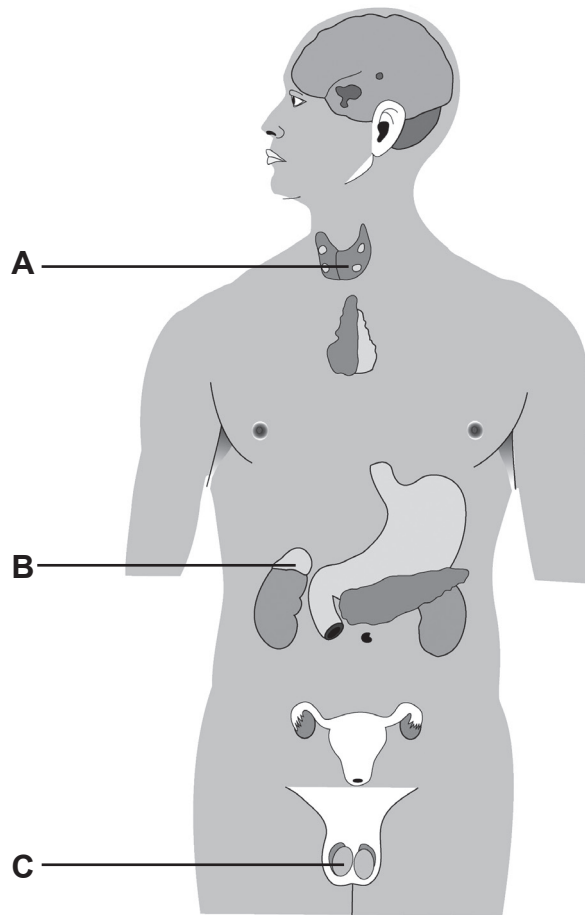
C _____ [1]

Functions _____

_____ [3]



(c) This is a diagram of the endocrine system.



Source: © Francis Leroy, Biocosmos / Science Photo Library

(i) Identify the glands marked **A**, **B** and **C** and explain **one** endocrine function of each gland.

A _____ [1]

Function _____

_____ [2]





B _____ [1]

Function _____

_____ [2]

C _____ [1]

Function _____

_____ [2]

(ii) Explain **two** differences in the functioning of the nervous and endocrine systems.

1. _____

_____ [2]

2. _____

_____ [2]





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(Questions continue overleaf)

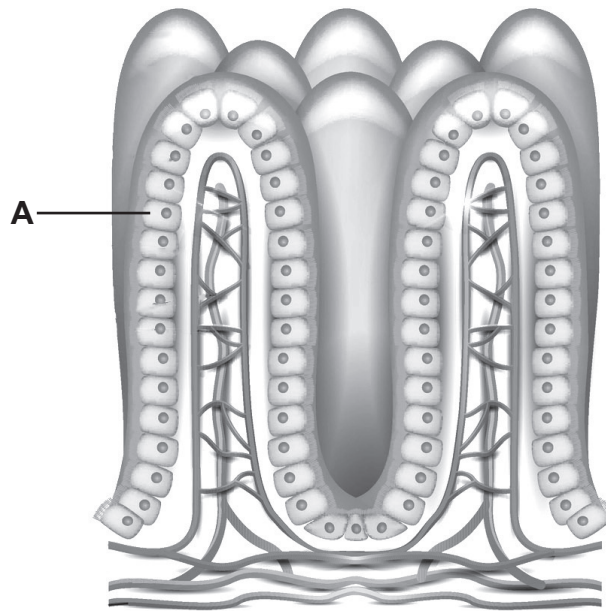
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[Turn over



24SHC7109

2 (a) This is a diagram of the villi in the digestive tract.



Source: © Getty Images

(i) Identify tissue A.

[1]

(ii) Explain the physiological cause of each of the following conditions that affects the digestive tract.

Acute pancreatitis _____

_____ [2]

Stomach ulcer _____

_____ [2]





Cirrhosis of the liver _____

_____ [2]



(b) David, aged 60, has had digestive discomfort for some time.

(i) Describe the role of each of the following parts of the digestive system.

Salivary glands _____

_____ [3]

Gall bladder _____

_____ [3]

(ii) David's GP has suggested that he may be at risk of developing cirrhosis of the liver.

Write down **two** common causes of cirrhosis.

1. _____ [1]

2. _____ [1]





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(Questions continue overleaf)



3 (a) The urinary system has an important role in maintaining fluid balance in the body.

(i) Write down **one** function of each of the following parts of the urinary system.

Sphincter _____
_____ [1]

Renal artery _____
_____ [1]

(ii) Nagra, aged 35, has been experiencing urinary incontinence.

Describe the physiological causes of urinary incontinence.

_____ [3]

(iii) Write down **two** factors which may have contributed to her developing urinary incontinence.

1. _____ [1]

2. _____ [1]



(iv) Explain **two** ways that urinary incontinence may affect Nagra's relationships.

1. _____

_____ [2]

2. _____

_____ [2]



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Question Number	Marks
1	
2	
3	

Total Marks	
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Examiner Number

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