



Rewarding Learning
ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2019

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]

THURSDAY 30 MAY, MORNING

TIME

2 hours.

INSTRUCTIONS TO CANDIDATES

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

Write your answers in the spaces provided in this question paper.

Answer **all three** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 100.

Quality of written communication will be assessed in questions

1(d)(ii), **3(b)(i)** and **3(d)**.

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

For Examiner's use only	
Question Number	Marks
1	
2	
3	
Total Marks	

(b) The four main tissue types in the body are nervous, muscle, connective and epithelial. Identify them below.

Examiner Only	
Marks	Remark

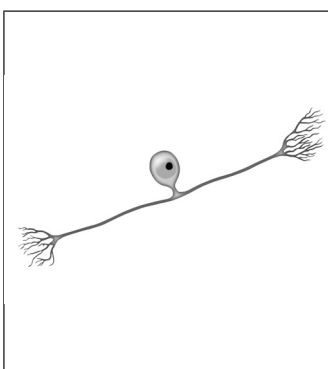
(i)



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[1]

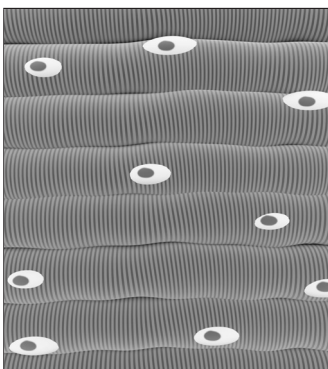
(ii)



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[1]

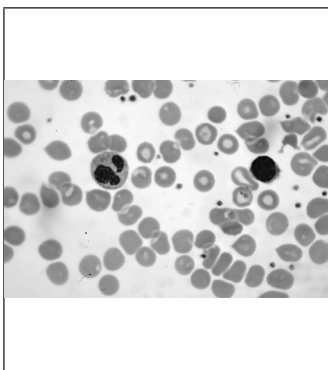
(iii)



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[1]

(iv)

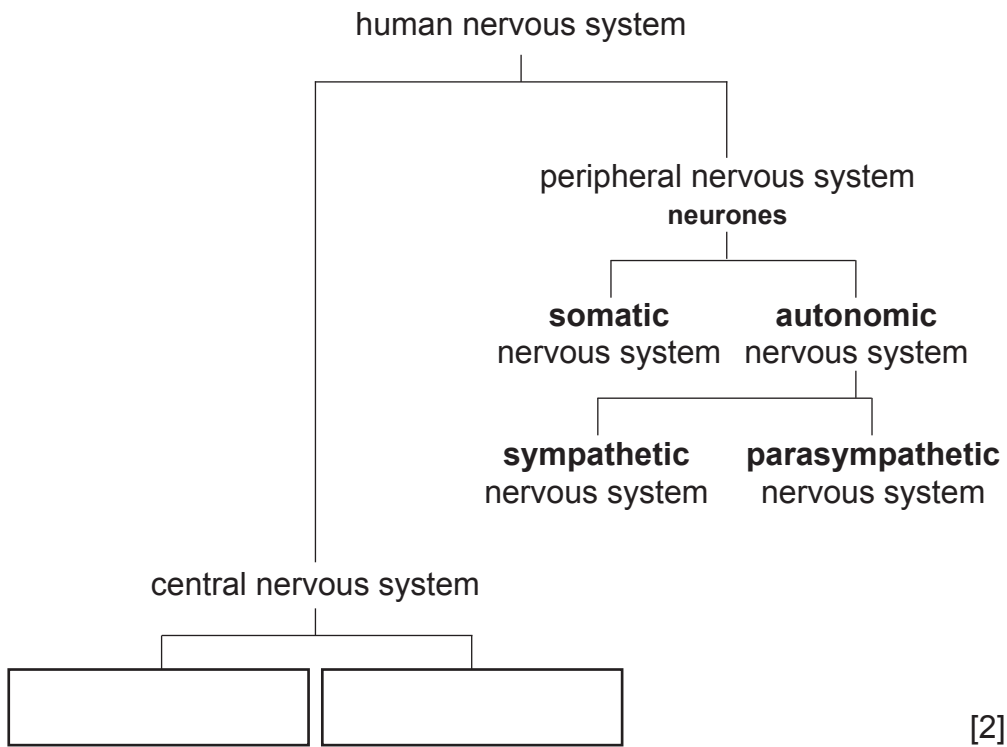


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[1]

(c) (i) The diagram below shows the organisation of the nervous system.

Complete the diagram to show the two divisions of the central nervous system.



[2]

Examiner Only	
Marks	Remark

(ii) Explain the function of each of the following parts of the central nervous system.

Hypothalamus

[2]

Cerebellum

[2]

Medulla oblongata

[2]

Examiner Only	
Marks	Remark

- (e) (i) The nervous system works with the endocrine system to coordinate and control the body.

Complete the table below to identify the gland, hormone or target organ involved in the endocrine system.

Gland	Hormone released	Target organ(s)
	adrenaline	heart, lungs and digestive system
pancreas		liver
	anti-diuretic hormone (ADH)	
pituitary		ovaries

[5]

- (ii) Choose words from the box below to complete the sentences about the endocrine and nervous systems. Words may be used once or not at all.

endocrine chemical electrical faster nervous
 slower tissue fluid blood circulatory neurones

The endocrine system secretes _____ messengers called hormones, which are released from glands and travel to target organs via the _____. The nervous system transmits _____ messages via _____ to effectors (muscle or glands). The transmission in the nervous system is much _____ than the transmission in the endocrine system. The effects of the _____ system are short lived whilst the effects of the _____ system are prolonged. [7]

Examiner Only	
Marks	Remark

(c) Explain the physiological causes of type 1 and type 2 diabetes.

Type 1 diabetes

[2]

Type 2 diabetes

[2]

Examiner Only	
Marks	Remark

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