



Rewarding Learning
ADVANCED SUBSIDIARY (AS)
General Certificate of Education
January 2009

Centre Number

71	
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Candidate Number

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Health and Social Care

Assessment Unit AS 14

assessing

Unit 14: Understanding Human Physiology

[A3H81]



TUESDAY 27 JANUARY, AFTERNOON

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 four** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 100.

Quality of written communication will be assessed in questions **2, 3 and 4**.
 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	
4	

Total Marks

--

1 Janey, aged three, has sensorineural hearing loss. She has been admitted to hospital with a fever as she has had a number of febrile convulsions.

(a) (i) Write down two causes of sensorineural hearing loss.

1. _____
_____ [1]

2. _____
_____ [1]

(ii) Explain what is meant by a fever.

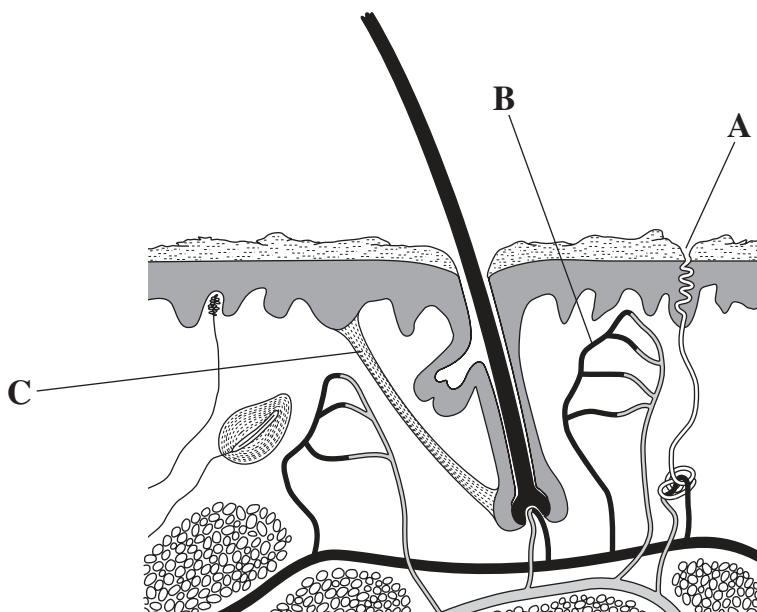
_____ [2]

(iii) Explain **one** way Janey's health may be affected by febrile convulsions.

_____ [2]

Examiner Only	
Marks	Remark

(b) This is a diagram of the skin.



© Biology: GCSE Edition (1986) by Geoff Jones and Mary Jones, published by Cambridge University Press

Discuss how the three labelled structures in the diagram help control body temperature.

A _____

 _____ [3]

B _____

 _____ [3]

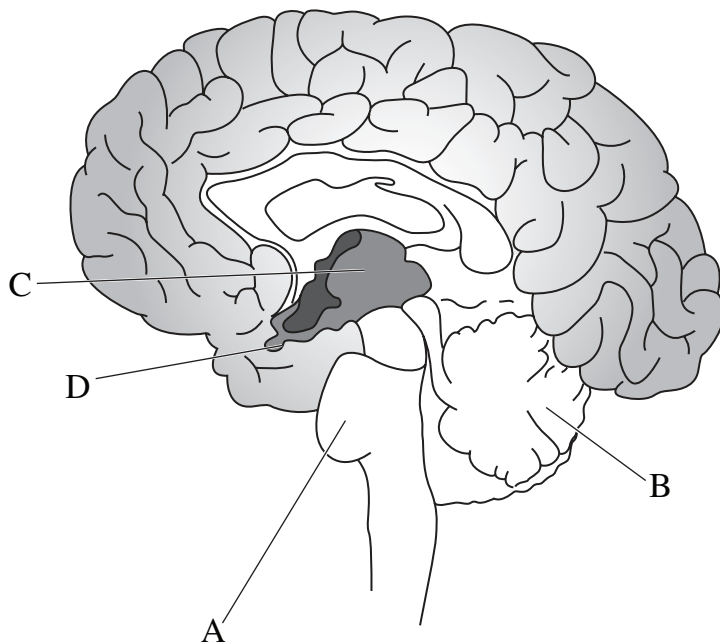
Examiner Only	
Marks	Remark

C _____

_____ [3]

Examiner Only	
Marks	Remark

2 (a) This is a diagram of the brain.



© SPORT & PE: A Complete Guide for GCSE by Barry Hodgson, 1998. ISBN 034070490X. Reproduced by permission of Hodder & Stoughton Ltd

(i) Identify and describe **one** function of each of the parts labelled A, B and C.

A Name : _____ [1]

Function : _____

_____ [1]

B Name : _____ [1]

Function: _____

_____ [1]

C Name : _____ [1]

Function : _____

_____ [1]

(ii) Part D, the pituitary gland, is found in the brain but is part of another system.

Identify the system to which the pituitary gland belongs.

_____ [1]

Examiner Only	
Marks	Remark

[9]

Examiner Only	
Marks	Remark

[Turn over

(b) Connor, aged 67, has recently had a stroke.

(i) Explain **one** cause of a stroke.

_____ [2]

(ii) Explain three **different** ways Connor may have been affected physically by the stroke.

1. _____

_____ [2]

2. _____

_____ [2]

3. _____

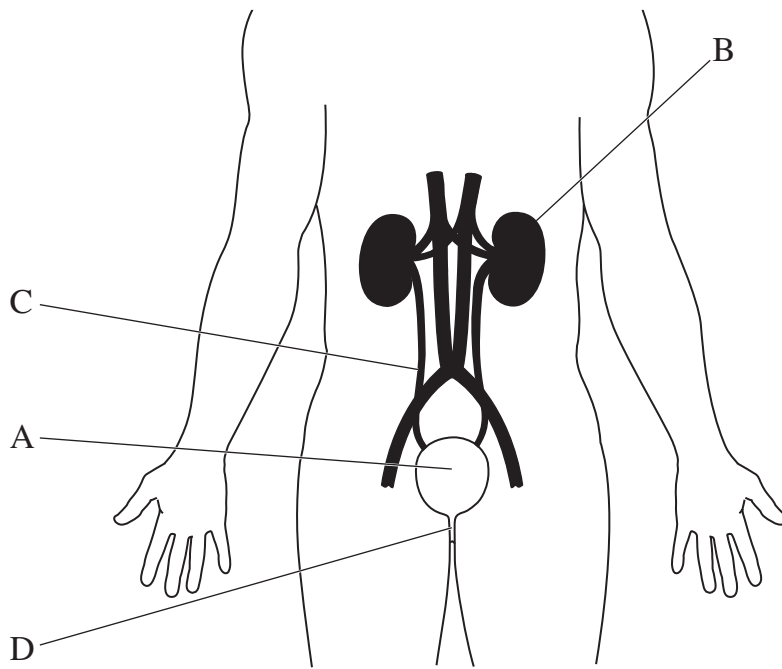
_____ [2]

Examiner Only	
Marks	Remark

[9]

Examiner Only	
Marks	Remark

3 This is a diagram of the urinary system.



Source: McIlmaine & Napier, ISBN 0340 85825 7

(a) Write down the name and describe **one** function of each of the parts labelled A, B, C and D.

A. Name: _____ [1]

Function: _____

_____ [1]

B. Name: _____ [1]

Function: _____

_____ [1]

C. Name: _____ [1]

Function: _____

_____ [1]

D. Name: _____ [1]

Function: _____

_____ [1]

Examiner Only	
Marks	Remark

(b) Sheila, aged 80, has urinary incontinence. She also has Type II diabetes and oedema.

(i) Discuss what causes urinary incontinence.

[3]

(ii) Explain what is meant by oedema.

[2]

(iii) Explain how two factors contribute to the onset of Type II diabetes.

Factor 1. _____

[2]

Factor 2. _____

[2]

Examiner Only	
Marks	Remark

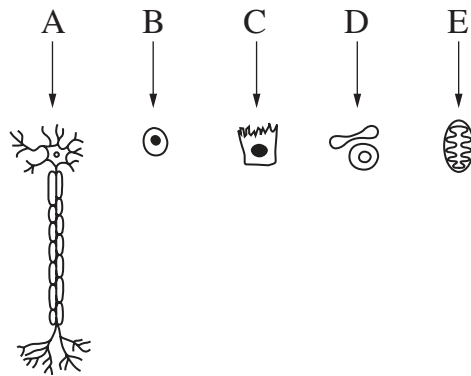
Blank writing area with horizontal lines for student answers. The text "[12]" is located at the bottom right of this area.

[12]

Examiner Only	
Marks	Remark

[Turn over

4 Leila, a sixth form student, viewed some human body structures using a light microscope. She identified five structures, A, B, C, D and E, illustrated below.



© *Physiology and anatomy* by John Clancy and Andrew McVicar, 2002 ISBN 34076239X. Reproduced by permission of Edward Arnold (Publishers) Ltd

(a) Write down the name and **one** function of each of the structures A–E.

A. Name: _____ [1]

Function: _____
 _____ [1]

B. Name: _____ [1]

Function: _____
 _____ [1]

C. Name: _____ [1]

Function: _____
 _____ [1]

D. Name: _____ [1]

Function: _____
 _____ [1]

E. Name: _____ [1]

Function: _____
 _____ [1]

Examiner Only	
Marks	Remark

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