



General Certificate of Education
Advanced Level Examination
June 2010

Health and Social Care

HC14

Unit 14 Diagnosis and Treatment

Thursday 17 June 2010 1.30 pm to 3.30 pm

For this paper you must have:

- a 12-page answer book.

Time allowed

- 2 hours

Instructions

- Use black ink or black ball-point pen.
- Write the information required on the front of your answer book. The **Examining Body** for this paper is AQA. The **Paper Reference** is HC14.
- Answer **all** questions.
- Do all rough work in your answer book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You will be marked on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.

Answer **all** questions.

There are 20 marks for each question.

Question 1

Brian visits his GP because he has breathing difficulties. The GP uses a stethoscope and percussion to help diagnose Brian's medical condition. The GP decides to refer Brian for an x-ray examination.

- 0 1** Describe how the GP should use the stethoscope. (2 marks)
- 0 2** Explain how the use of a stethoscope will help diagnose Brian's condition. (3 marks)
- 0 3** Describe how the GP will perform percussion. (3 marks)
- 0 4** Explain how percussion will help diagnose Brian's medical condition. (2 marks)
- 0 5** Suggest **three** other common methods of physical examination the GP may use to help diagnose Brian's medical condition. (3 marks)
- 0 6** Explain how x-rays will be used to help diagnose Brian's medical condition. Include in your answers the basic principles of x-ray use. (7 marks)

Question 2

A survey of the number of treatments for patients with cardiovascular disease in 2004–2006 produced the data shown in the table below.

Treatment	Patients with Cardiovascular Disease		
	2004	2005	2006
Bypass surgery only	24 700	25 100	25 300
Bypass with other heart surgery	2 650	2 800	3 340
Prescribed drug type 1	1 320	1 300	1 280
Prescribed drug type 2	26 900	28 400	28 700
Prescribed drug type 3	34 500	37 600	37 550

- 0 7** What conclusions can be drawn from the data in the table? (9 marks)
- 0 8** Name **three** ways in which drugs are classified. (3 marks)
- 0 9** Explain what is meant by ultrasound scanning and the basic principles of its use. (6 marks)
- 1 0** Give **one** advantage and **one** disadvantage of ultrasound scanning. (2 marks)

Question 3

- 1 | 1** Discuss the principles of hospital nursing compared with home nursing care.
The quality of your written communication will be assessed in this question. (6 marks)
- 1 | 2** Suggest **two** different ways individuals could treat minor illnesses at home. (2 marks)
- 1 | 3** Describe how electrocardiography is carried out. (6 marks)
- 1 | 4** Explain how the electrocardiography results aid diagnosis of heart conditions. (4 marks)
- 1 | 5** Give **one** example of body fluid sampling for a named disorder. (2 marks)

Question 4

Explain what is meant by:

- 1 | 6** lithotripsy (4 marks)
- 1 | 7** radiotherapy (4 marks)
- 1 | 8** endoscopic surgery. (3 marks)
- 1 | 9** Tom is an alcoholic who needs a liver transplant. Discuss the ethical issues associated with treating individuals like Tom.

The quality of your written communication will be assessed in this question. (9 marks)

END OF QUESTIONS

There are no questions printed on this page