



General Certificate of Education
Advanced Level Examination
June 2011

Health and Social Care

HC14

Unit 14 Diagnosis and Treatment

Wednesday 15 June 2011 1.30 pm to 3.30 pm

For this paper you must have:

- a 16-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 that 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

During a consultation with her GP Angela had her temperature and blood pressure measured. The GP also took Angela's medical history into account before referring Angela for an MRI scan at a local hospital.

- 0 1** Describe how the GP can measure Angela's temperature. *(3 marks)*
- 0 2** Describe how the GP can measure Angela's blood pressure. *(3 marks)*
- 0 3** Briefly explain how the GP would find out Angela's medical history. *(3 marks)*
- 0 4** Briefly explain why it is important that the GP takes Angela's medical history into account. *(3 marks)*
- 0 5** Explain the principles and use of Magnetic Resonance Imaging (MRI). *(6 marks)*
- 0 6** Give **one** advantage and **one** disadvantage of an MRI scan compared to ultrasound scanning. *(2 marks)*

Question 2

A study of reported infectious diseases in a population over four years (2004–2007) produced the data shown in the table below.

Number of individuals reporting infectious disease	Year			
	2004	2005	2006	2007
Rubella (German Measles)	60	81	45	62
Meningitis	85	82	110	88
Mumps	1001	1725	5500	910
Food poisoning	3300	3620	3915	4210
Pertussis (Whooping Cough)	23	28	25	12

0 7 What conclusions can be drawn from the data in the table? (9 marks)

0 8 Suggest **three** different reasons why the number of individuals reporting each infectious disease are not the same each year. (3 marks)

A survey of patients was carried out to find their views on the quality of treatment and care they received from the staff of a health centre. A structured interview was used for the survey.

0 9 Give **two** advantages of using a structured interview, compared with an unstructured interview, to gain the patients' views. (2 marks)

1 0 Suggest **two** different reasons why an unstructured interview may have been better than a structured interview to gain the patients' views. (2 marks)

1 1 A medical drug which is administered by injection is known by three different types of name. What are the **three** types of drug name? (3 marks)

1 2 Give **one** reason for administering the medical drug by injection. (1 mark)

Question 3

George needs a liver transplant operation. This operation will require a general anaesthetic and some microsurgery.

1 3 Briefly explain what is meant by a general anaesthetic and why this is necessary for George's surgery. (4 marks)

1 4 Briefly explain what is meant by microsurgery. (4 marks)

1 5 Describe the broad principles of transplant surgery with reference to George's operation. (4 marks)

1 6 Explain the principles of home nursing and state how they differ from the principles of hospital nursing.

The quality of written communication will be assessed in this question. (8 marks)

Turn over for the next question

Question 4

Leanne is 30 years old. She needs radiotherapy treatment for a localised cancer. She is concerned about the side effects of the treatment.

- 1 | 7** Explain what is meant by radiotherapy treatment for cancer. Include in your answer the different ways the treatment may be given and how the treatment will work to help Leanne. *(7 marks)*
- 1 | 8** Give **three** side effects Leanne is likely to have as a result of her radiotherapy treatment. *(3 marks)*
- 1 | 9** Discuss the ethical issues associated with the treatment of diseases and dysfunctions directly related to smoking tobacco.
The quality of written communication will be assessed in this question. *(10 marks)*

END OF QUESTIONS