

General Certificate of Education  
June 2006  
Advanced Subsidiary Examination



**HEALTH AND SOCIAL CARE**  
**Unit 6 Common Diseases and Disorders**

**HC06**

Thursday 15 June 2006 1.30 pm to 3.00 pm

**For this paper you must have:**

- an 8-page answer book

Time allowed: 1 hour 30 minutes

**Instructions**

- Use blue or black ink or 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 HC06.
- Answer **all** questions.
- Do all rough work in the answer book. Cross through any work you do not want marked.

**Information**

- The maximum mark for this paper is 60.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers. Quality of Written Communication will be assessed in answers written in continuous prose.

Answer **all** questions.

Each question carries 15 marks.

**1** Parasites such as fungi and viruses cause some human diseases.

- (a) (i) Give one example of a disease caused by:  
a fungus;  
a virus. *(2 marks)*
- (ii) Name two other parasites of humans which are not fungi or viruses. *(2 marks)*
- (b) The effects of an infectious disease on the body are sometimes caused by damage to cells and tissues.  
Give two other ways in which infectious diseases cause effects on the body. *(2 marks)*
- (c) (i) Explain how and why some individuals might be more vulnerable to infection than others. *(6 marks)*
- (ii) Suggest three different preventative strategies which can be used to minimise the risk of infection. *(3 marks)*

**2** Ronnie is an adult who has an allergy.

- (a) (i) Explain what is meant by an allergy. *(3 marks)*
- (ii) Describe four symptoms Ronnie might have that are caused by his allergy. *(4 marks)*
- (b) Briefly explain how skin testing can be used to detect the cause of Ronnie's allergy. *(3 marks)*
- (c) A survey investigating two different allergies studied 400 individuals. There were 100 children, 100 adolescents, 100 adults and 100 elderly people in the survey. The results are in the table below.

	<b>Number of allergy cases per 100 individuals at each life stage</b>			
	<b>Children</b>	<b>Adolescents</b>	<b>Adults</b>	<b>Elderly</b>
Allergy 1	2	3	12	14
Allergy 2	6	9	20	21

Draw conclusions from the data in the table about the two allergies. *(5 marks)*

- 3 Rita is 48 years old and has recently noticed changes to her vision. She finds reading difficult but her optician tells her not to worry as the changes to her vision are normal for a person of her age. He prescribes some reading glasses for her.
- (a) (i) What name is given to the changes occurring to Rita's vision? *(1 mark)*
- (ii) Explain how the changes in Rita's eyes are causing her problems with reading. *(4 marks)*
- (b) Rita sometimes suffers from headaches caused by stress.
- (i) Suggest four different causes of headaches other than stress. *(4 marks)*
- (ii) Explain how headache pains are produced. *(4 marks)*
- (c) What is a migraine? *(2 marks)*
- 4 A dental survey of 100 Year 7 school children (50 boys and 50 girls) produced the results shown in the table below.

	<b>Boys</b>	<b>Girls</b>
Brushes teeth once a day	30	40
Brushes teeth twice a day	5	8
Brushes teeth less than once a day	15	2
Has one or more fillings	28	12
Has lost one or more teeth due to decay	25	10

- (a) Draw conclusions from the data in the table about the dental health of the 100 school children. *(9 marks)*
- (b) Explain the role of diet and bacteria in tooth decay and plaque formation. You may use diagrams if you wish. *(6 marks)*

**END OF QUESTIONS**

**There are no questions printed on this page**