General Certificate of Education June 2006 Advanced Subsidiary Examination



HEALTH AND SOCIAL CARE Unit 5 Nutrition and Dietetics

HC05

Tuesday 13 June 2006 1.30 pm to 3.00 pm

For this paper you must have:

an 8-page answer book

You may use a calculator.

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 HC05.
- 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.

M/Jun06/HC05 **HC05**

Answer all questions.

Each question carries 15 marks.

- 1 Katrina is sixty years old. Her diet is low in non-starch polysaccharides (NSP) and high in saturated fats.
 - (a) Explain the likely health problems for Katrina of eating a diet:

(i) low in non-starch polysaccharides (NSP);

(3 marks)

(ii) high in saturated fats.

(3 marks)

(b) Describe the basic chemical composition of saturated fat.

(5 marks)

- (c) Suggest, with reference to named foods, how Katrina could improve her diet. (4 marks)
- 2 Zac is sixteen years old. His typical daily diet includes the nutrients detailed below. The Dietary Reference Values for these nutrients for males 15-18 years are also shown in the table.

	Zac's typical daily intake	Dietary Reference Values for males 15-18 years	
Protein (g)	60	55.2	
Vit A (mg)	452	700	
Vit B2 (mg)	1.4	1.3	
Phosphorus (mg)	450	775	

- (a) (i) From the information in the table, what conclusions can be drawn about Zac's typical daily intake? (4 marks)
 - (ii) Explain how the intake of each of the four nutrients at these levels might affect Zac. (9 marks)
- (b) Suggest two different factors, other than Zac's age, which help determine his dietary needs. (2 marks)

3 (a) Valena suffers from a food allergy which means that she cannot eat nuts. Eating nuts would cause anaphylactic shock for Valena.

(i) Name two different foods causing allergic reactions.

(2 marks)

(ii) Outline two other common allergic responses apart from anaphylactic shock.

(2 marks)

(b) Give two different examples to show how each of the following religious beliefs might affect a person's diet:

(i) Hinduism;

(2 marks)

(ii) Muslim.

(2 marks)

(c) Briefly outline how being a diabetic requires a modified diet.

(4 marks)

(d) Religious belief and health needs might influence the dietary planning for an individual.

Give three different factors which may also be considered when planning a diet for an individual. (3 marks)

- **4** (a) Explain how each of the following health and safety precautions help prevent outbreaks of food poisoning:
 - (i) storing food at the correct temperature;

(3 marks)

(ii) thawing food thoroughly before cooking;

(3 marks)

(iii) keeping raw food apart from cooked foods.

(3 marks)

The table below shows the reported incidents of food poisoning in England and Wales over three years.

Cause of food poisoning	2001	2002	2003
Campylobacter	56392	46 630	44 832
Salmonella	16474	14738	14 887
E.coli	768	595	675

(b) What conclusions can be drawn from the information in the table?

(6 marks)

There are no questions printed on this page

Copyright $\ensuremath{\mathbb{C}}$ 2006 AQA and its licensors. All rights reserved.