

General Certificate of Education
June 2007
Advanced Subsidiary Examination



HOME ECONOMICS **HEC2**
Unit 2 Food Product Assessment and Analysis Task

Tuesday 22 May 2007 1.30 pm to 4.30 pm (Session 1)
Wednesday 23 May 2007 9.00 am to 12.00 noon (Session 2)

For this paper you must have:

- a 12-page answer book
- your research material
- scissors, glue.

You may use a calculator.

Time allowed: 6 hours in two 3-hour sessions

Instructions to candidates

- Attempt **one** task only.
- You may use the research material you have collected.
- You may **not** add to your research material after Session 1 has started.
- You may use all or part of Session 1 to order your research before you begin writing your response to the Task.
- You will not have access to your research material or answer book between Session 1 and Session 2.
- Your response, including any relevant research material, should be between 1500 and 2000 words and written in the 12-page answer book provided. However, it is also possible to use more or fewer words.
- Write the information required on the front of your answer book. The *Examining Body* for this paper is AQA. The *Paper Reference* is HEC2.
- Use blue or black ink or ball-point pen. Use pencil only for drawing.
- Do all rough work in the answer book. Cross through any work you do not want marked.
- If you need extra paper, use additional answer sheets.
- At the end of Session 2 hand in both your answer book and all your research material to the invigilator.

Attempt **one** task only, based on the topic you have researched.

Topic 1

Investigate the different functional properties of proteins and fats in food products. Your research should take into consideration the physical and chemical structure of both proteins and fats and the changes they undergo in the presence of heat, pH, salt and mechanical action.

A range of relevant practical work should be undertaken to demonstrate the different functional properties you identify.

Task 1

Using the information gathered from your research and practical work, write a detailed report on the functional properties of proteins and fats in food products.

Topic 2

Investigate the factors which influence what young people (14 to 18 years) eat. Research the role that diet plays in their physical development and susceptibility to ill health in their youth and later adult life.

In addition, identify the food knowledge and skills needed by young people to provide them with good health throughout life. Practical solutions should be demonstrated.

Task 2

Using the information gathered from your research and practical investigation, write an informative report which addresses the factors influencing the food choices young people make. Your report should demonstrate the knowledge and skills young people need to help them adopt a healthy balanced diet and promote good health throughout life.

Topic 3

Food processors and microwave ovens are considered by many to be essential pieces of equipment. Investigate this view by making reference to their features, effectiveness, energy efficiency and ergonomic design.

Your research should involve an evaluation of each piece of equipment based on your practical work. In addition, you should consider the possible users of each piece of equipment.

Task 3

Using the information gathered from your research and practical investigation, write a detailed report on the benefits and disadvantages of food processors and microwave ovens. Your report should refer to their features, effectiveness, energy efficiency and ergonomic design.

Topic 4

A current concern for consumers is the variable quality/usefulness of information provided by food manufacturers on convenience foods. Research how effective this information is in helping consumers to assess and analyse food products in terms of their nutritional quality and palatability.

A range of relevant practical work should be undertaken to support your findings.

Task 4

Using the information gathered from your research and practical investigation, write a detailed report which reflects current consumer concern about the quality of the information provided by food manufacturers on convenience foods. Your report should address both the possible advantages and disadvantages of the information.

END OF TASKS

There are no tasks printed on this page