

AN ROINN OIDEACHAIS AGUS EOLAIOCHTA

LEAVING CERTIFICATE EXAMINATION, 2000

HOME ECONOMICS (SCIENTIFIC AND SOCIAL)

HIGHER LEVEL

THURSDAY, 15 JUNE - MORNING, 9.30 to 12.15

(400 marks)

Five questions to be answered.

Two questions must be chosen from **each** Section, the other at choice of candidate.

All questions carry equal marks.

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SECTION 1 - SCIENTIFIC

1. Give an account of the chemical structure of carbohydrates.
Describe the properties of **(i)** sugars; **(ii)** starch and **(iii)** cellulose.
Explain how the energy value of food is calculated and include reference to the energy value of protein, fat and carbohydrate.
Explain **each** of the following: metabolism; basal metabolic rate; kilocalorie.
2. Discuss the nutritive and dietetic value of meat.
Outline the factors that affect the toughness of meat and describe a variety of methods used to tenderise meat.
Using beef **or** lamb, give instructions for preparing, cooking and serving a main course dish suitable for a celebration dinner for four teenagers.
Write a brief note on vacuum packed meat.
3. Give a detailed account of **(a)** the position, **(b)** the structure and **(c)** the function of the male reproductive system. Use a labelled diagram to illustrate your answer.
Explain the function of **each** of the following: **(i)** oestrogen; **(ii)** progesterone; **(iii)** testosterone.
4. Explain how bacterial food poisoning occurs.
Name and describe **two** bacteria which cause food poisoning and state the sources and method of infection in each case.
Using fresh ingredients, describe in detail how you would prepare a chicken casserole **or** pie suitable for freezing. State how the frozen dish should be defrosted and prepared for serving.

SECTION 11 - SOCIAL

4. Adolescence is a stage of development which brings many changes and pressures. Give an account of some of the changes and pressures that young people may have to deal with during adolescence.
Discuss the contribution that youth work can make towards the development of young people. Summarise the factors that should be considered when setting up a youth club and state the characteristics necessary for effective leadership.
6. Ireland is among the EU countries with a high level of relative poverty. Define the terms *absolute poverty* and *relative poverty*. Give an account of **(i)** the causes and **(ii)** the effects of poverty as exists in modern Ireland. Name and describe **three** Government strategies designed to alleviate poverty. Write a brief account of the functions of the Combat Poverty Agency.
7. Summarise the main factors that affect a person's choice of housing. Set out the results of a study you have carried out on social / local authority housing. Refer to **each** of the following:
- (i)** the factors that determine eligibility;
 - (ii)** the range of housing provided;
 - (iii)** how rent is calculated;
 - (iv)** **two** schemes operated by local authorities that enable persons to purchase their own homes.
8. Assess the value of microwave cookers. Include reference to the different types available including combination cookers. State the microwave cooker you would recommend for family kitchen. Give a full account of the appliance and refer to: **(i)** structure; **(ii)** working principle; **(iii)** care and cleaning; **(iv)** modern features; **(v)** cost.
9. List the features of a good household drainage system. Give an illustrated account of a household drainage system and state the function of **(a)** the vent pipe and **(b)** the inspection chamber. Outline the role of **(i)** the consumer and **(ii)** local authorities in dealing with the growing waste disposal problem. Name and outline the activities of **one** organisation that deals with environmental issues.