



**Home Economics
Leaving Certificate
Higher Level**

**Past Exam Questions on
Elective 1: Heating, Water, Lighting...**

Q1 Part (b) Section C 2013

- 1.(b) (i) Explain the underlying principle of one type of energy efficient lighting. (12)
- (ii) Give details of three contemporary developments in lighting technology. (18)

Q1 Part (c) Section C 2013

- 1.(c) It is important to choose the correct flooring for your home or business. It must meet your individual lifestyle/business needs and be flexible and durable enough to withstand the rigours of daily life.
- (i) Explain each of the following:
- solid floors
 - suspended floors. (12)
- (ii) Name and describe one semi-hard flooring and one soft flooring that you would recommend for a family living room. State the main advantage and the main disadvantage of each. (18)

Q1 Part (b) Section C 2012

- 1.(b) (i) Discuss the importance of adequate ventilation in a house. (15)
- (ii) Recommend one method of artificial ventilation suitable for a kitchen and describe the working principle of the method recommended. (15)

Q1 Part (b) Section C 2010

- 1.(b) (i) Describe the processes carried out at water treatment plants to ensure household water supply is fit for human consumption. (15)
- (ii) In relation to the cold water storage system in the home, explain the function of each of the following:
- stop cock
 - ball valve / ball cock
 - overflow pipe. (15)

Q1 Part (b) Section C 2009

- 1.(b) **'Higher fuel prices, lower incomes and poor energy efficiency will result in more and more people being unable to heat their homes.'**

(Irish Independent 12th June 2008)

- (i) Homes can be heated by one or a combination of heating systems.
Identify **two** heating options available and comment on the merits of each. (14)

- (ii) Recommend **one** method of insulation suitable for **each** of the following areas of the home:

- attic
- windows.

State the underlying principle of **each** method of insulation. (16)

Q1 Part (b) Section C 2008

- 1.(b) **Rooms that are used for different activities require varying levels of thermal comfort which can be regulated by the use of a thermostat.**

- (i) Discuss levels of thermal comfort in relation to **two** rooms in the home. (12)

- (ii) Explain the working principle of a thermostat and give examples of the use of thermostats in the home. (18)

Q1 Part (a) Section C 2006

1. (a) *Reduced fossil fuel supplies together with changing trends in modern housing developments, have led the consumer to investigate alternative methods of heating the home.*

- (i) Identify **three** heating options available for the modern home. (9)

- (ii) Explain the factors which should be considered when choosing a heating system for a family home. (20)

- (iii) Set out details of **one** domestic central heating system you have studied.
Include reference to:

- (a) fuel/energy source
- (b) heating principle
- (c) efficiency and convenience.

(21)

Q1 Part (c) Section C 2006

1. (c) *Good lighting is an essential part of successful interior design.*

(i) Describe three properties of light. (12)

(ii) Identify two types of contemporary lighting and in each case evaluate its use in interior design. (18)