

Centre Number	Candidate Number	Name
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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

**FOOD AND NUTRITION**

**0648/01**

Paper 1 Theory

October/November 2004

**2 hours**

Candidates answer on the Question Paper.  
No Additional Materials are required.

**READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in.  
Write in dark blue or black pen.  
You may use a soft pencil for any diagrams or rough working.  
Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer **all** questions in the spaces provided on the Question Paper.  
You are advised to spend no longer than 45 minutes on Section A.  
At the end of the examination, fasten all your work securely together.  
The number of marks is given in brackets [ ] at the end of each question or part question.

For Examiner's Use	
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<b>Total</b>	

If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.

Stick your personal label here, if provided.

This document consists of **12** printed pages.



**Section A**

Answer **all** questions

1 (a) State **three** functions of protein.

.....  
.....  
.....[3]

(b) Name the elements which combine to form protein.

.....  
.....[2]

(c) (i) Define the term 'High Biological Value (HBV) protein'.

.....  
.....[1]

(ii) Name **four** foods which are good sources of HBV protein.

.....  
.....[2]

(d) (i) Define the term 'Low Biological Value (LBV) protein'.

.....  
.....[1]

(ii) Name **four** foods which are good sources of LBV protein.

.....  
.....[2]

(e) (i) What are complementary proteins?

.....  
.....[2]

(ii) Give **two** examples of protein complementation.

.....  
.....[1]





**Section B**

Answer **all** questions

4 (a) Name **six** of the nutrients in red meat.

- 1. .... 2. ....
- 3. .... 4. ....
- 5. .... 6. ....[3]

(b) Suggest **four** methods of tenderising tough meat before cooking

- 1. ....
- 2. ....
- 3. ....
- 4. ....[2]

(c) (i) Give **two** moist methods of cooking meat.

- 1. .... 2. ....[1]

(ii) Describe the changes which take place when meat is cooked by one of these methods.

- .....
- .....
- .....
- .....
- .....
- .....
- .....[4]





6 (a) (i) List **four** causes of food spoilage.

- 1. .... 2. ....
- 3. .... 4. ....[2]

(ii) Identify **four** conditions which promote food spoilage.

- 1. .... 2. ....
- 3. .... 4. ....[2]

(b) Freezing is often used to preserve food. Explain:

(i) how freezing prevents food spoilage;

- .....
- .....
- .....[2]

(ii) the reason for 'fast freezing' food.

- .....
- .....
- .....[2]

(c) (i) Give the temperature at which a domestic refrigerator should operate.

- .....[1]

(ii) What would happen if the temperature in the refrigerator was:

(a) too high;

- .....
- .....

(b) too low?

- .....
- .....[1]









