



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Mark scheme

June 2003

GCE

Design and Technology
Food Technology

Unit FTY3

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FOOD TECHNOLOGY UNIT 3 (FTY3)

Ensure that any definitions of lacto-ovo vegetarians are correct and that candidates understanding of the foods eaten is correct.

Question 1a**Subject content**

They are available to the food industry in a range of forms - fresh, frozen, canned or dried.

Wide variety providing a range of different sensory characteristics.

Pulses absorb other flavours well.

Good source of vegetable protein. (n.b. should not state that vegetarians would be missing protein etc. from their diet) - may explain functions of protein and/or complementation

Good source of B vitamins, except for riboflavin - must state actual vitamin or mineral and pulse.

Good source of NSP.

They are filling.

Good source of carbohydrate.

Contain virtually no fat, the exception is the soya bean.

Six per cent of the population in the UK are of ethnic origin and consumers increasingly demand ethnic foods e.g. chilli. Many of these ethnic foods make use of pulses.

Tinned are quick and easy to cook.

Pulses are not a substitute they are an alternative.

Pulses can be sprouted and this will increase the nutritional value.

Soya beans can be made into products such as milk, tofu, TVP.

Fresh pulses e.g. mangetout contain vitamin C.

N.B. peanuts are not a pulse.

Mark allocation

Explanation	Mark range
Little or basic knowledge of why pulses are an appropriate food material for products suitable for lacto-ovo vegetarians. One reason may be discussed or 2 or 3 briefly outlined	1-3
Some knowledge of why pulses are an appropriate food material for products suitable for lacto-ovo vegetarians. 3 or 4 reasons may be outlined or 2 or 3 discussed accurately and in detail	4-6
Sound and accurate knowledge of why pulses are an appropriate food material for products suitable for lacto-ovo vegetarians. 4 or 5 reasons discussed accurately and in detail	7-10

Question 1b**Subject content**

More people are becoming vegetarian (lacto-ovo vegetarians are the largest group).

Concerns about the safety of meat and fish including BSE, foot and mouth, factory farmed salmon, etc.

Concerns about cruelty to animals.

Belief that a lacto-ovo vegetarian diet is more healthy than a meat eating diet. Evidence is available to suggest that vegetarians are less likely to suffer from certain types of cancer and heart disease.

Campaigns such as the 'eat five fruit and vegetables a day.'

Obesity is increasing in the UK and there is a belief that a lacto-ovo vegetarian diet can help to prevent/reduce this.

Ecological reasons to help towards the economic use of world food resources.

Six per cent of the UK population are of ethnic origin, religions such as Buddhism advocate a vegetarian diet.

Greater demand for different types of food, many meat eaters are trying lacto-ovo vegetarian products to provide variety in their diet.

Fashion e.g. teenage girls.

Vegetables are available all year as we import more.

Media reports.

Belief by some people that a vegetarian diet can help with weight loss.

Mark allocation

Explanation	Mark range
One reason briefly discussed or 2 or 3 outlined	1-3
Two reasons discussed or 3 or 4 briefly discussed	4-6
Three or more reasons are soundly and accurately discussed to show a clear understanding (to achieve at this level candidates must discuss both advantages and disadvantages)	7 -10

Question 2

Part (a)

Subject content

Each sketch should reflect the general design criteria:

- a product suitable for lacto-ovo vegetarians
- product uses at least one pulse
- main meal
- suitable to be served with rice or pasta (this could be on the side or incorporated in product)
- should attract non-vegetarian consumers.

Each initial idea must be a different product and **not** a variation of the same product.

Each initial idea should be communicated using a sketch which could be 2D, 3D, cross section etc.

Each sketch should be annotated.

Mark allocation per initial design idea (4x7 marks)

Explanation	Mark range
Sketch is difficult to recognize, no annotation and initial idea may not reflect the design criteria	1-2
Sketch is recognizable, annotated and reflects some of the design criteria	3-5
Sketch is recognizable, annotated in detail and reflects the general design criteria with some explanation	6-7

N.B. if no sketch for an idea no marks can be allocated

Part (b)

(i)

Subject content

Assess the quality of communication of the development of the final design proposal. Communication should show the use of a range of methods including text, diagrams and annotation.

Mark allocation

Explanation	Mark range
Basic level of communication skills resulting in limited development	1-2
Good level of communication skills resulting in appropriate development	3-4
High level of communication skills resulting in clear and accurate development	5-6

(ii)

Subject content

Assess the selection of materials for the development of the final design proposal. Materials should be described to show the quantities, types, pre-preparation etc.

Mark allocation

Explanation	Mark range
Limited description of materials, some of which may not be appropriate	1-3
Adequate description of appropriate materials	4-6
Clear and articulate description of appropriate materials	7-8

(iii)

Subject content

Assess the originality/innovation of the development of the final design proposal.

Mark allocation

A product suitable for a lacto-ovo vegetarian using at least one pulse with some originality/innovation

1 mark

An original/innovative product suitable for a lacto-ovo vegetarian using at least one pulse

2 marks

(iv)

Subject content

Assess the development of the chosen design for lacto-ovo vegetarian product that uses at least one pulse.

Mark allocation

Explanation	Mark range
Limited evidence to show development of chosen idea that does not always reflect the general design criteria	1-4
Evidence to show good development of chosen idea that reflects the general design criteria	5-9
Evidence to show considerable development of chosen idea that fully reflects the general design criteria including sketches and notes resulting in a realistic and appropriate solution	10-14

(v)

Subject content

It is important the description of the packaging materials takes into consideration the presentation of the product for sale.

Mark allocation

Explanation	Mark range
Limited description of packaging materials needed to present the product for sale, all of the necessary materials may not be described or some of the described packaging materials may not be suitable	1-2
Adequate description of suitable packaging materials (types of materials)	3
Clear and full description of all of the packaging materials needed to present the product for sale, these must be appropriate for the chosen product, reasons for choice	4-5

Part (c)

i)

Subject content

The explanation must refer to the general design criteria.

Mark allocation

Explanation	Mark range
Limited range (1-2) of reasons explained and/or inaccurately explained	1-2
Some (3) reasons explained	3-5
A range (4 or more) relevant reasons soundly and accurately explained to show a clear understanding of why the main meal is suitable for lacto-ovo vegetarians whilst also attracting non-vegetarians. It should explain the inclusion of at least one pulse and why the meal would be suitable for serving with rice or pasta	6-7

ii)

Subject content

The product specification should specifically consider a number of areas which could include the following:

portion size

types of ingredients

ratio and proportion of ingredients

manufacturing processes

cooking times and temperatures

finished weight and volume

quality control.

Mark allocation

Explanation	Mark range
One factor specifically considered	1-2
Two or three factors specifically considered	3-4
Four or more factors specifically considered	5-6