

2004 Lifestyle and Consumer Technology

Intermediate 2

Finalised Marking Instructions

Question 1

(a) Identify four nutrients which are found in bread. Explain the function of nutrients 3 and 4 .	
Course skills: Recall and use of knowledge	Marks allocation: 4 marks
4 x ½ mark for identifying each nutrient 2 x 1 mark for functions of two of the nutrients	
Nutrient - Protein	
<ul style="list-style-type: none"> • required for growth, repair and maintenance of cells/body tissues • extra used as a secondary source of energy/used for energy in the absence of carbohydrate or fat 	
Nutrient - Fat	
<ul style="list-style-type: none"> • helps to preserve body heat by forming an insulating layer beneath the skin • provides a convenient and concentrated source of energy • forms part of the structure of cell membranes throughout the body especially the brain • provides a source of fat soluble Vitamins A, D, E, K 	
Nutrient - Carbohydrate	
<ul style="list-style-type: none"> • provides a source of energy • acts as a protein sparer so that protein can be used for its primary functions 	
Nutrient - Vitamin B₁ (Thiamin)	
<ul style="list-style-type: none"> • required for normal growth/maintenance of general health • required for the release of energy from food especially carbohydrate, by oxidation • required for the function and maintenance of the nerves • required for the maintenance of red blood cells 	
Nutrient - Vitamin B₂ (Riboflavin)	
<ul style="list-style-type: none"> • essential for normal growth • required for the release of energy from food especially amino acids and fat, by oxidation • required for the prevention of sores in the corners of the mouth 	
Nutrient - Nicotinic acid (Niacin)	
<ul style="list-style-type: none"> • essential for normal growth • essential for release of energy from food especially carbohydrate, by oxidation 	
Nutrient - Calcium	
<ul style="list-style-type: none"> • required for the building/maintenance of strong bones and teeth • works with phosphorous and vitamin D to maintain strong bones and teeth • needed for the clotting of blood • needed for muscle function • needed for hormone production 	
Nutrient - Iron	
<ul style="list-style-type: none"> • helps to keep blood healthy • needed to make red blood cells • needed to form haemoglobin which gives blood its red colour • needed to transport oxygen in the blood to the body cells • needed for myoglobin in our muscles, which enables oxygen to be transferred from the blood to the muscles where it interacts with carbohydrate to provide energy for muscle activity 	
Nutrient - Folic Acid	
<ul style="list-style-type: none"> • prevents neural tube defects/spina bifida if taken in early stages of pregnancy • is essential for the formation of blood cells/bone marrow • prevents anaemia • is essential for the release of energy from food/protein • is essential for normal growth in children 	
Nutrient - Sodium	
<ul style="list-style-type: none"> • maintains concentration of body fluids • prevents muscle cramps. 	

Question 1 (cont'd)

(b) State **four** practical ways to increase the consumption of wholemeal and brown bread.

Course skills: Recall and use of knowledge | **Marks allocation:** 4 marks

4 x 1 mark for explanation

Practical ways

Can be used:

- as a crumble/au gratin topping for sweet and savoury dishes
- as croutons
- as an ingredient in pudding eg Queen of puddings
- instead of white bread in sandwiches
- as breadcrumbs for coatings eg fish cakes
- for bulking out dishes eg meat loaf, beef-burgers
- serve wholemeal/brown bread/rolls as an accompaniment eg for soup
- replace high fat/sugar snacks with wholemeal/brown toast
- have wholemeal/brown toast for breakfast.

(c) A family of five wants to buy a breadmaker.
They have a busy lifestyle and would like to try out new healthy recipes.
Choose the breadmaker that best meets their needs.

Course skills: Drawing conclusions | **Marks allocation:** 4 marks

Correct choice x 1 mark

3 x 1 mark for explanations

Choice: Breadmaker B

10 programmes to choose from

- good variety of programmes for the family to choose from since they are keen to make bread and want to try out different types of bread

Makes 0.5 kg - 1.25 kg loaves

- good size of loaf in the 1.25 kg one – this bread maker makes a big loaf and so would cope with the needs of this family of five
- 1.25 kg loaf means that they can make bread less often so taking account of the fact that they have a busy lifestyle and less time to spend on this
- small size of loaf may be useful for trying out new recipes and avoid waste

Dishwasher safe, non-stick bread pan

- do not want to spend a lot of time on cleaning the bread pan as they have a busy lifestyle
- removable so can be washed with other dishes and is able to go in to the dishwasher so will save the family time/energy, as they have a busy lifestyle

Rapid bake setting

- important as family have a busy lifestyle and this will allow them to make bread more quickly

Programmable timer for overnight baking

- bread can be made at any time as it is programmable so will suit the family and they can make bread overnight if they wish to save time as they have a busy lifestyle
- convenient for the family as they can choose when they want the bread to be ready to save time. Save waiting for bread to be ready as they have a busy lifestyle

Question 1(c) (cont'd)

Recipe and Instruction book included

- family want to try out new recipes and experiment with the breadmaker so this recipe book will allow them to do that
- important to allow the family members to use the breadmaker to the full potential
- each member of the family will have a different level of skill – some members of the family may need step by step instructions to produce successful results
- instruction book is important so that everyone understands how to use the breadmaker – all will have different levels of skill understanding

Mid-cycle signal

- this will be useful so that the family can add other ingredients to the bread to make it healthier
- the members of the family can get on with other tasks in the home and add any other ingredients/or check on the breadmaker when the signal alerts them

Question 2

(a) Evaluate the suitability of the 'Kozi' bag for a four month old baby.

Course skills: Evaluation

Marks allocation: 4 marks

4 x 1 mark for explanations

Choice of colours

- good choice of colours so will suit any gender of baby
- can be used to match with any colour scheme of bedding/pram covers/other clothes

Age

- suitable shape for a 4 month old baby as they will require loose covers when sleeping in order to move around
- bag shape is good for this age as they are not yet walking/crawling so will still allow for freedom of movement

Machine washable

- Kozi bag can be washed by machine and this will save parents time/effort
- Kozi bag can be washed with other clothes so would be good for the family as it is more convenient for the parents
- will need a lot of washing as babies spill food/are sick/urine spills/etc so has to be able to be washed often
- important to wash well so that the parents get value for money out of the Kozi bag

100% cotton fleece fabric

- 100% fleece fabric is soft, which is good as it needs to be comfortable against the baby's delicate skin
- 100% fleece fabric is soft, which is good as it will be less irritating for the baby
- 100% cotton fleece will be warm to wear for the baby as babies can lose heat rapidly
- cotton fleece is usually a hard wearing fabric so this will make it last longer/retain its appearance for longer which will make it better value for money for the parents
- fleece fabric has moderate elasticity, therefore, will allow the baby freedom to move around with no restrictions
- fleece fabric is usually knitted so would not crease being made of cotton and would retain its appearance if the baby wears it for long periods
- cotton can crease easily so may not look appealing if the baby has been lying in it for several hours

Front zip

- useful for changing the baby so that the Kozi bag does not have to be taken off completely saving parents time/effort
- care would need to be taken as zip may catch baby's skin and cause pain/injury
- useful because it gives easy access to the baby when changing saving parents time/effort
- zip comes only part way down the Kozi bag and so may make changing the baby difficult without removing the baby from the bag

Large armholes

- allows for ease of movement and will be less restrictive for the baby/as babies may move around a lot when sleeping
- will still allow the baby to have clothes on under the Kozi bag which will keep the baby warmer as babies can lose heat rapidly
- can still allow the child to have clothes on under the Kozi bag therefore will not have to completely change the baby before putting him/her in the 'Kozi' bag

Question 2(a) (cont'd)

Tumble dry on low heat

- low heat setting is more economical to dry so will be better value for money for the parents
- low heat setting will mean that the Kozi bag will dry fairly quickly which then means that it has a fast turn around time for using it again with the baby
- may not need ironing so saving parents time/effort

(b) Explain the meaning of **each** of the following symbols, which appear on the care label of the 'Kozi' bag.

Course skills: Recall and Use of Knowledge

Marks allocation: 2 marks

2 x 1 mark for explanations

Label A



Label A

- cotton, linen or viscose articles where colours are fast at 40°C but not at 60°C (with normal/maximum machine action)
- machine/hand wash at 40°C

Label B



Label B

- warm iron

Question 2 (cont'd)

(c) A manufacturer has the choice of three new fabrics for a baby sleep suit.
Select the **most suitable** fabric for the sleep suit.

Course skills: Drawing Conclusions

Marks allocation: 4 marks

1 mark for correct choice

3 x 1 mark for reasons linked to the baby's sleep suit and/or manufacturer

Correct choice

Fabric C

Reasons

Colourfast

- this will avoid colours running in the wash as the sleep suit may need to be washed frequently
- this will avoid colours running in the wash and ruining the appearance of the sleep suit
- this will avoid colours bleeding during use, which may stain other garments/bedding
- this will avoid colours bleeding during use when sucked by a baby
- this will prevent the fabric losing colour in the wash and fading over time

Absorbent

- good absorbency rating which will make it more comfortable for the baby
- will need to absorb any perspiration from the baby so will make it more comfortable for the baby
- will absorb any excess moisture eg urine if the baby's nappy leaks making it more comfortable for the baby

Keeps shape

- average rating for shape retention so may lose its shape and spoil its appearance, which would mean the manufacturer has to deal with customer complaints/returns
- fabric may shrink or go baggy so may not be good value for money and consumers may not make repeat purchases

Stain resistant

- babies can get messy so this will ensure that if there are any stains on the fabric it will wash off easily
- will retain its appearance as the stain will not be absorbed into the fabric so will keep the baby looking clean longer

Ease of care

- babies' clothes will need frequent washing so this will be a good fabric to use for the sleep suit as it has a high rating
- very good ease of care so will save the adult time/effort when cleaning the item
- may be used as a selling point for the manufacturer as parents will be looking for easy care garments

Question 2 (cont'd)

- (d) When developing new products a manufacturer will carry out sensory analysis tests. Explain **two** advantages to a manufacturer of using **one** of the following tests.
- (i) Preference test
 - (ii) Rating test

Course skills: Recall and Use of Knowledge

Marks allocation: 2 marks

2 x 1 mark for explanations

Preference test

- will establish the likes and dislikes of the group targeted so manufacturer can address these in the final product
- will establish which product is the most popular so that this can be taken to the next stage of development
- will allow the manufacturer to make any modifications to the product before full scale production

Rating test

- these rate or quantify specific properties of a product so the manufacturer can use this information to establish strengths of various characteristics
- used to compare similar products from another manufacturer to enable the manufacturer to change unpopular qualities
- to enable the manufacturer to adapt/modify/improve aspects of the product

Question 3

- (a) A single, health conscious, man wants to buy a health grill to save time and effort when cooking.
Study the information about health grills and chose the **most suitable** health grill to meet his needs.
Give **three** reasons for your choice

Course skills: Drawing Conclusions

Marks allocation: 4 marks

1 mark for correct choice

3 x 1 mark for appropriate reasons

Correct choice

Health Grill C

Size of grill

- he is only cooking for himself so will not need a big grill
- small grill means that it will take less time/energy to clean it and he wants to save time and effort

Digital timer

- can be pre-set so he will be able to leave the grill and the timer will warn him when the food is ready which will save him time
- a beeper warns the man when the food is ready so this will ensure that the food does not over cook/burn saving him effort when cooking/cleaning
- food can be programmed to cook when required which would make it more convenient for the man and save him time/effort when cooking

Ease of cleaning

- saves time which is what the man is looking for in a grill
- saves time so will enable the man to have more leisure time at his disposal
- requires less time/effort to clean the health grill so this will save the man time which is what he is looking for in a grill

Clarity of instruction book

- diagrams and pictures are included to make it easy for the man to use and he will be more likely to use the grill to its full potential if he knows how to operate it
- good rating so this will ensure good results without too much time or effort

Ease of use

- has a high rating so he will be more likely to use the grill to its full potential and he enjoys cooking

Non-stick removable grill plates

- useful for the man so that he can remove the plates and these can be either hand washed/can be put into the dishwasher which would save him time
- less effort required in the cleaning as the plates are non-stick so this would save the man time and effort

Channels carry run-off fat into a removable drip tray

- important as he is health conscious and this will reduce the cholesterol/total fat in his diet
- this will encourage healthy eating as less fat will be in the food so will be less likely to cause diet related diseases (linked to an over-consumption of fat)
- removable drip tray so will make the fat easier to dispose of saving the man time and effort

Question 3(a) (cont'd)

Floating hinge adjusts to the thickness of food

- this means that he can cook foods of varying thickness and he is not restricted in his choice of foods
- this will allow him to use the health grill for cooking most of his meals which will give/save him time and effort when cooking

A beeper sounds when programme is complete

- this will allow the man to make the food without taking time to watch it as he will be safe in the knowledge that the beeper will alert him to the food being ready

(b) Give **two** safety points, which should be followed when cleaning electrical kitchen appliances.

Course skills: Recall and Use of Knowledge	Marks allocation: 2 marks
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2 x 1 mark for appropriate point

Safety points

- care should be taken not to touch the outside casing in case this becomes hot
- always take care to unplug any electrical equipment before washing
- after use switch off and allow hot appliances to cool before cleaning
- the whole appliance/motor should not be submerged in hot water
- ensure sharp blades are washed separately and with care
- do not leave sharp blades immersed in washing up water
- dry appliance carefully before re-use
- follow manufacturer's instructions when cleaning

NB – Answers linked to a specific appliance will be acceptable

Question 3 (cont'd)

- (c) State an advantage and a disadvantage of **one** of the following methods of payment.
- (i) Credit Card
 - (ii) Debit Card

Course skills: Recall and Use of Knowledge **Marks allocation:** 2 marks

1 mark for an advantage

1 mark for a disadvantage

Credit Card

Advantages

- do not have to have money in the account to make a purchase
- saves having to carry money when buying goods so less chance of this being lost or stolen
- no need to withdraw cash before buying anything
- a monthly statement shows how much has been spent so track can be kept of spending
- can take advantage of bargains when they are available
- spread the cost of payments over a period of time
- possible to get interest free credit if the amount spent is paid back by the stated date
- loyalty points towards holidays etc can be earned
- extra insurance benefits
- can be used to pay for goods by telephone/internet
- can be used to pay for goods abroad/in a wide range of retail outlets

Disadvantages

- very easy to overspend
- can get into debt very quickly if the card is overused
- card can be stolen or lost so increasing the risk of fraud
- many cards have an annual fee/administration fee payable annually and this will add to the cost of goods
- interest is charged on any outstanding balance which is not paid by the stated date so this will add to the cost of the goods
- if the credit card is near to its limit it may be rejected when paying for the goods
- card can only be used in shops which display the credit card symbol so this may restrict consumer to certain shops
- certain criteria to obtain a card must be met

Debit Card

Advantages

- can use the card to make a payment when there is money available in the account
- saves having to carry money when buying goods so less chance of this being lost or stolen
- account can have an overdraft facility to allow the person to spend up to a pre-determined amount
- less likely to run up large debts
- can be used to pay for goods by telephone/internet
- can be used to pay for goods abroad/in a wide range of retail outlets

Disadvantages

- can only pay for what can be afforded
- must have money in the account before it can be accessed
- card can be stolen or lost so increasing the risk of fraud
- if there is no money in the account the card may be rejected when paying for goods

Question 3 (cont'd)

(d) The Sale and Supply of Goods Act 1994 offers protection to the consumer. State two important points of this Act.	
Course skills: Recall and Use of Knowledge	Marks allocation: 2 marks
2 x 1 mark for each relevant point	

- the goods must be of satisfactory quality
- the goods must be fit for their purpose/must perform in the way that the seller has told the consumer they will
- the goods must match the description given/be as described
- consumers are entitled to a refund or compensation if any of the above requirements are broken (except where the consumer is aware of faults/damage/"second" quality, before purchase
- the act covers second-hand, reduced price and sale goods sold by the manufacturers/mail order firms/market traders

(e) The following organisations can help consumers. Choose two organisations and explain how each can help the consumer.	
Course skills: Recall and Use of Knowledge	Marks allocation: 2 marks
2 x 1 mark for each reason	

Citizens Advice Bureau	<ul style="list-style-type: none"> • help and advice on problems with faulty goods • advice on employment, family or money issues/debt counselling • advice on consumer rights • refer consumers to specialist organisations • refer consumers to solicitors for legal advice • write letters on consumers' behalf • act as an intermediary between retailer and consumer
Consumer Advice Centre	<ul style="list-style-type: none"> • will offer advice on any consumer related matter • unbiased advice to help consumers make the best choices available • can assist with taking action and providing use on using the small claims court
Consumers' Association	<ul style="list-style-type: none"> • offers independent/unbiased pre-shopping advice to consumers • research and test products for safety • campaigns for consumer rights • involved in forming local consumer groups • publishes 'Which?' magazines to assist choice of consumer items
Trading Standards Department	<ul style="list-style-type: none"> • enforce fair trading laws • investigate consumer complaints • investigate weights and measures in shops, pubs, factories etc • test products for safety • check prices in shops etc • free and impartial advice on shopping problems • carries out spot checks for counterfeit goods

Question 4

(a) State four factors which affect the choice of foods that we eat. Explain the importance of factors 3 and 4 .	
Course skills: Recall and Use of Knowledge	Marks allocation: 4 marks
4 x ½ mark for factors 2 x 1 mark for explanation	

Factors	
Age	<ul style="list-style-type: none"> • people of different ages require different amounts of food, for example, toddlers require more protein based foods to allow for growth • people of different ages require different amounts of food, for example, elderly people require less energy from their food due to reduced activity • people of different ages require different amounts of food, for example, teenage boys require extra protein for the growth spurt • people of different ages require different amounts of food, for example, teenage boys require extra iron to compensate for increased blood volume • people of different ages require different amounts of food, for example, menstruating girls/women require extra iron to deal with monthly blood loss
Body Size	<ul style="list-style-type: none"> • an individual who is heavier than another will need more energy to move his/her body • large heavy people are normally less active than lighter people and reduced activity uses correspondingly less energy
Gender	<ul style="list-style-type: none"> • males tend to eat/need more food as they generally have bigger skeletons/body size so require more food to maintain body size • males tend to eat/need more food as they generally have bigger muscles and so require more food to maintain body size
Health/illness/special requirements	<ul style="list-style-type: none"> • people with health problems usually have to follow dietary advice from their doctor • pregnancy can make some women eat less due to sickness or eat more due to increased appetite • diabetics may have to restrict their carbohydrate/sugar intake depending on what type of diabetes they have • illness may result in loss of appetite and so restrict amount/type of food chosen
Lifestyle/Occupation	<ul style="list-style-type: none"> • people who take lots of exercise/have physically demanding jobs, have greater energy needs than inactive people/those with jobs where they sit all day • luxury foods may be chosen when entertaining • busy lifestyles may mean an increased dependence on convenience foods
Climate/season/time of year	<ul style="list-style-type: none"> • in cold weather the body requires more heat so will require more fat/carbohydrates to maintain body temperature • in cold weather more hot food is chosen/in hot weather we choose to eat more cold food eg salads, ice-cream

Question 4(a) (cont'd)

Likes/dislikes	<ul style="list-style-type: none"> • people are more likely to choose foods which they like (whether these are 'healthy' or not) • if people's likes/dislikes are taken into account when choosing food waste will be minimised
Culture/religion/peer pressure	<ul style="list-style-type: none"> • some religions forbid eating certain foods- eg Hindu's are not allowed to eat cows as they are considered sacred • vegetarians will not eat any animal foods as it is against their beliefs
Allergies/intolerance	<ul style="list-style-type: none"> • some people can be allergic to certain foods which will bring about an allergic reaction (which can vary in severity depending on the degree of sensitivity to the food) • some allergies can result in anaphylactic shock • certain additives/colours may cause hyperactivity in children
Skills of person preparing food	<ul style="list-style-type: none"> • a person with limited food preparation skills will be more likely to choose convenience foods • a person with highly developed food preparation skills has a wide choice of food/ingredients/cooking methods
Foods available	<ul style="list-style-type: none"> • this will depend on location eg people in isolated rural communities will have a more limited choice of food than people in large cities • although most foods are available all year round the time of year will have an effect on cost and this may limit food choice
Aesthetic appeal of foods	<ul style="list-style-type: none"> • when food looks, smells and tastes good it is more likely to be chosen
Money available	<ul style="list-style-type: none"> • lack of money restricts choice of foods • larger budgets enable greater choice of foods • larger budgets may lead to more convenience foods/luxury foods being chosen as the extra cost can be accommodated
Equipment available	<ul style="list-style-type: none"> • ownership of freezer/microwave is necessary if a frozen microwave meal is to be chosen • ownership of hand blender/food processor may mean more food is prepared from fresh ingredients as their preparation will be easier/quicker
Time available	<ul style="list-style-type: none"> • ready meals/convenience foods may be chosen when time is short • ready meals/convenience foods may be chosen by people who have a busy lifestyle

Question 4 (cont'd)

(b) State **four** factors, **other than nutrition**, which must be considered when feeding toddlers. Explain **factors 3 and 4**.

Course skills: Recall and Use of Knowledge | **Marks allocation:** 4 marks

2 x ½ mark for nutritional need

2 x 1 mark for appropriate explanations linked to toddler

Factor	Explanations
Chop food into small pieces/pureé	<ul style="list-style-type: none"> so the child can feed him/herself toddlers cannot cut food up on their own food will be handled easily by the toddler toddlers cannot manipulate cutlery very well easier for the toddler to put on to a fork or a spoon so that the child won't choke on the food
Make food look attractive	<ul style="list-style-type: none"> toddlers can often be encouraged to eat foods if they appeal to them eg a happy face colour will add interest to the food and appeal to the child
As free from additives as possible/organic	<ul style="list-style-type: none"> some toddlers may be allergic to certain foods and they may have an allergic reaction to them parents may wish to choose foods which do not use artificial chemicals in manufacture
Good flavour	<ul style="list-style-type: none"> to encourage the child to want to eat more
Small portions	<ul style="list-style-type: none"> toddlers can only manage small amounts at one time as they have small stomachs so the child is encouraged to clear their plate
Introduce new foods gradually	<ul style="list-style-type: none"> some toddlers can be allergic/react to a variety of foods and this will help to establish which food is causing the reaction
Serve a variety of foods	<ul style="list-style-type: none"> when a toddler is teething they need both hard and soft foods so that their teeth develop normally to encourage the child to have a varied diet repeated offering of foods will often encourage child to eat a wider range
Discourage snacks between meals	<ul style="list-style-type: none"> this will make sure that the child has a good appetite for their meals snacks such as sweets can contribute to tooth decay
Do not force children to eat	<ul style="list-style-type: none"> this can cause long term phobias/problems child will eat in their own time and will not normally become malnourished
Avoid very small foods	<ul style="list-style-type: none"> peanut size foods/hard foods can cause choking if they get lodged in the windpipe so avoid small, smooth shaped foods
Avoid strong flavoured/very spicy food	<ul style="list-style-type: none"> toddlers may find highly seasoned foods too strong for their sense of taste and not eat it toddlers may not be able to digest this strongly flavoured food/may upset their stomachs
Temperature of food	<ul style="list-style-type: none"> food that is too hot may burn the toddler's mouth food that is too cold may shock the toddler
Hygiene	<ul style="list-style-type: none"> food should be prepared hygienically to make sure that food poisoning does not occur
Texture	<ul style="list-style-type: none"> texture of food should appeal to the toddler so variety should be included in the daily diet eg mixture of soft, crunchy, chewy, smooth

Question 4 (cont'd)

(c) A parent is choosing a lunch box for a toddler who goes to nursery school.
Choose the **most suitable** lunch box the toddler

Course skills: Drawing conclusion

Marks allocation: 4 marks

1 x 1 mark choice

1 x 3 marks for reasons for choice

Correct choice

Lunch box A

Material

- plastic will be easy to wash and so more convenient for the parent
- will be long lasting and hard-wearing so value for money for the parent
- plastic will be lighter, therefore easier for the toddler to carry

Colour

- toddlers like to have bright colours and are attracted to certain colours/will encourage the child to want to use/carry the lunch box each day to nursery
- toddler will be able to identify his/her lunch box from the colour so easier for the child to find at lunchtime/in the nursery
- widest range of colours so child can choose a colour that s/he likes

Retains shape

- need to have strong sides/rigidity so that it stops the contents of the box being bashed
- will retain its appearance for longer so will be better value for the toddler and parent

Keep cool properties

- important when it is high risk food being stored as toddlers would be a group at high risk of food poisoning
- drinks will taste better if cool so the toddler will enjoy them more
- nursery may not have the facility to refrigerate all the lunch boxes so this will be convenient for them
- so that the food will remain cool until the child eats lunch at lunchtime

Durable

- best rating for durability which will mean value for money for the parents as the lunch box will not have to be replaced too soon
- should be strong/hard wearing to withstand daily use as the lunch box will be used each day the child is at nursery
- should be strong/hard wearing to withstand daily washing as it will have to be washed each time it is used by the child

Cartoon character

- favourite cartoon characters will encourage the toddler to use the lunch box as he will want to take it to the nursery
- toddler will be easily able to identify his/her lunch box at the nursery so causing less problems for nursery staff

Question 5

(a) Members of a youth club plan to make **one** of the following items to sell at a fund-raising event.

- Iced cakes
- Winter hats

Draw up a **four** point specification for production of the item and explain the importance of **points 3 and 4**.

Course skills: Recall and Use of Knowledge	Marks allocation: 4 marks
4 x ½ mark for each specification point	
2 x 1 mark for each of 2 explanations	

<u>Iced cakes</u> Specification points	Explanations
Must be colourful	<ul style="list-style-type: none"> • when an item is colourful it will be eye catching and encourage people to buy it
Must be an iced cake	<ul style="list-style-type: none"> • the item should be a cake and have icing on it (glacé/fondant/royal)
Must look attractive	<ul style="list-style-type: none"> • this is important so that the majority of people who come to the fundraising event will like the look of the cake and buy it
Must taste good	<ul style="list-style-type: none"> • (people will buy the cake for it's looks) but it should taste good too, give value for money/to avoid returns/complaints • if consumer enjoys the cake they will make repeat purchases
Must be within the abilities of the person icing the cake	<ul style="list-style-type: none"> • the person icing the cake should have good skills in this as it will affect the overall appeal of the cake
Must be quick/easy to make	<ul style="list-style-type: none"> • the members will have a limited time to make the cakes and depending on their skills it will need to be easy so that the results are good
Must be suitable for making in large quantities/bulk	<ul style="list-style-type: none"> • it will be easier for the members of the group to bulk bake the cakes so that the oven being used is full and, therefore, most cost/energy efficient • so that sufficient can be made to supply customers and avoid disappointment
Must be made to a high standard	<ul style="list-style-type: none"> • to ensure customer satisfaction/repeat sales
Must be prepared in hygienic/safe conditions	<ul style="list-style-type: none"> • this will ensure that the cakes are not contaminated with any food poisoning bacteria which could be passed on to anyone who eats the cakes
Must be cost effective/cheap to produce	<ul style="list-style-type: none"> • the cakes are a way of raising funds for the youth club so they should be a realistic price to make so that a reasonable profit can be made
Must be appealing to the target group	<ul style="list-style-type: none"> • it is important that the cakes are appealing so that the customer will be attracted to them and want to buy the cakes

Question 5(a) (cont'd)

<p>Must have a simple design on icing</p> <p>Must be easy to package/transport</p>	<ul style="list-style-type: none"> • simple designs are more likely to appeal to the public than complicated ones • they will be easier to produce and some of the youth club may have limited food preparation skills • as this will take less time to produce so the members of the youth club can make more to increase turnover/profits <ul style="list-style-type: none"> • so that they can be packaged quickly after making • so that they can be carried home successfully
<p><u>Winter hats</u> Specification points</p> <p>Must be colourful/be available in a range of colours</p> <p>Must be warm</p> <p>Must be a good fit/available in a range of sizes</p> <p>Must look attractive</p> <p>Must be within the capabilities of the person making the hat</p> <p>Must be attractive</p> <p>Must be quick/easy to produce</p> <p>Must be suitable for producing in bulk</p> <p>Must be cost effective/cheap to produce</p> <p>Must be appealing to the target group</p>	<p>Explanations</p> <ul style="list-style-type: none"> • this will make the hat look attractive and encourage the customers to buy them • so that the hat is suitable/appealing to both genders <ul style="list-style-type: none"> • hats for winter are normally to keep the head warm so the hat should be made from warm fabric <ul style="list-style-type: none"> • the hat needs to fit all sizes so it should be made from stretch fabric so that it can fit all shapes and sizes of head <ul style="list-style-type: none"> • this is important so that the majority of people who come to the fundraising event will want to buy the hat <ul style="list-style-type: none"> • the person making the hat should have good sewing skills so that it has a good finish <ul style="list-style-type: none"> • this will be more likely to attract customers and make them want to buy the hats <ul style="list-style-type: none"> • the hats should take the minimum time to make as the members will have a limited time to make them • if they are easy to produce it will be more likely to achieve a good result <ul style="list-style-type: none"> • so that sufficient can be made to supply customers and avoid disappointment • so that the youth club members can work on a production line system and save time <ul style="list-style-type: none"> • as the hats are a way of fund raising they must be realistic price so that a profit can be made <ul style="list-style-type: none"> • it is important that the hats are appealing so that the customers will be attracted to them and want to buy the hats

Note to markers - Candidates may provide other relevant answers and markers should use their professional judgement in determining whether answers are acceptable

Question 5 (cont'd)

- (b) The members of the youth club are going ice-skating. They will be skating for two hours and will have a snack meal afterwards.
Choose the snack meal which would best meet the needs of a 15 year old girl.

Course skills: Drawing conclusions **Marks allocation:** 4 marks

Correct choice x 1 mark
3 x 1 mark for each explanation

Correct choice **Snack meal D**

Energy intake

- total energy for this meal is 1076KJ(259kcal) which will provide the energy she needs to replace the energy lost during the ice-skating
- teenagers need a high intake of energy as they are normally active and need to have an adequate supply

Protein

- she needs a good intake of protein as teenagers are still growing so needs are met
- highest amount of protein in the snack – since she is active she is likely to burn up any excess protein, (but if not obesity can occur)
- she is active and this may mean injuries and protein is needed for the repair of these injuries – good intake to meet this need

Carbohydrate

- teenager needs a good supply of carbohydrate to boost energy supplies which will have been used when ice-skating

Total fat

- this snack provides the least amount of total fat but this will be enough to replace the energy used when skating
- has the least amount of total fat – reduced levels of total fat will help to prevent obesity/CHD for the teenage girl in the future

Iron

- provides a good source of iron to prevent anaemia which is common in teenage girls
- carries oxygen around the blood/important teenager is active to ensure cells are adequately supplied with oxygen
- necessary for the formation of haemoglobin/red blood cells important as blood volume is increasing in teenage years/to replace blood loss during menstruation
- teenager is involved in sport/may need iron to replace blood lost through injury

Calcium

- calcium is required for the production of strong bones/teeth and is important because a teenager is still growing
- needed to form the adult sized skeleton (approximately 40% of) which forms during the teenage years
- necessary to prevent rickets/brittle bones/important as bones are being formed as teenager is still growing/may help to reduce the risk of osteoporosis in later life

Vitamin C

- good vitamin C in this snack which helps wounds to heal if she is active and does a lot of sport/receives any sports injuries/she will need a sufficient intake
- vitamin C is necessary for the absorption of iron which is important so that teenage girls have an adequate supply to prevent anaemia
- necessary to promote healthy skin as teenage girls are prone to skin problems

Question 5 (cont'd)

(c) The Youth Club is planning to buy a popcorn maker.

Thinking about **safety** and **convenience** in use, evaluate the popcorn maker below.

Course skills: Evaluation

Marks allocation:

4 marks

4 x 1 mark for each evaluative comment

Reasons

Clear plastic lockable lid

- safer in use as glass could shatter and cause damage to the members of the youth club when they are using it
- can see into the lid so will be able to see if there are any obstructions so may prevent accidents when in use by the members of the youth club
- lockable lid so it will be more secure which is important as children will be using the machine

Easy clean surface

- it is an electrical appliance, therefore, would not be put into water so this surface makes it easy to keep clean by the youth club members
- easy clean surface, therefore, will be more convenient/mean less work for the youth club helpers/members who have to tidy up
- as the surface is easy to clean it is less likely that the members of the youth club put the appliance away dirty after use which could cause food hygiene risks

Makes 6 servings of popcorn in 2 minutes

- serving of six portions is good in the time scale and not all the members will want popcorn at the same time so this is a convenient amount to avoid wastage
- could make large quantities for the youth club quite quickly so this will be convenient if there is a big demand

Suitable for use by children over 12 years of age

- could be dangerous for junior members to use on their own (as they could get hurt) so would need an adult to supervise
- senior members would be able to make their own popcorn so allowing them to have some independence
- unsuitable because the youth club may have children under 12 who may wish to use the popcorn maker and would not be allowed
- suitable because the youth club will have members over 12 who could use the popcorn maker (and this may encourage independence)

Chute removable for washing

- chute will become sticky and dirty so it is a good design for the chute to be removable as it is more hygienic and easier to clean
- will make it quicker/more convenient to wash and, therefore, will save the members/leaders time

Outer casing may become hot

- this could be dangerous for the younger members so it is important to have an adult to supervise in case of a burn
- this could be dangerous for the younger members so it may not be a good choice for the youth club if they are not supervised by adults

Intermediate 2 Level Home Economics

Analysis of Question Paper for the Year 2004

Content	<input type="checkbox"/>	Health and Food Technology
	<input checked="" type="checkbox"/>	Lifestyle and Consumer Technology
	<input type="checkbox"/>	Fashion and Textile Technology

Analysis of question content and question choice

Question	Content (Brief outline)	Choice element		Mark
		YES	NO	
1a	Nutrients in bread & their functions		✓	4
b	Practical ways of increasing the consumption of wholemeal and brown bread		✓	4
c	Choice of breadmaker for a family		✓	4
2a	Evaluation of 'Kozi' bag		✓	4
b	Explanation of care symbols on Kozi bag label		✓	2
c	Choice of fabric for baby's sleep suit		✓	4
d	Advantage to manufacturer of sensory analysis tests	✓		2
3a	Choice of health grill		✓	4
b	Safety points when cleaning electrical kitchen appliances		✓	2
c	Advantages & disadvantages of Credit cards/Debit cards	✓		2
d	Two points of Sale & Supply of Goods Act 1994		✓	2
e	Consumer organisations which offer help and advice	✓		2
4a	Factors affecting choice of food		✓	4
b	Factors to be considered when feeding toddlers		✓	4
c	Choice of lunch box for a toddler		✓	4
5a	Specification for iced cakes/winter hats	✓		4
b	Choice of snack meal for teenager		✓	4
c	Evaluation of popcorn maker		✓	4

Intermediate 2 Level Home Economics Analysis of Question Paper for the Year 2004						Context		Health & Food Technology Lifestyle & Consumer Technology Fashion & Textile Technology	
Question 1 - 5									
Component Unit					Skill Assessment				
Question	Management of Practical Activities	Product Development	Consumer Studies	Choice	Recall & Use of Knowledge	Drawing Conclusions	Evaluation	Totals	
1	8		4	0	8	4		12	
2a		4					4		
b			2		2				
c		4				4			
d		2		2	2			12	
3a		4				4			
b			2		2				
c			2	2	2				
d			2		2				
e			2	2	2			12	
4a	4				4				
b	4				4				
c			4			4		12	
5a		4		4	4				
b	4					4			
c		4					4	12	
Totals	20	22	18	10	32	20	8	60	
Target Range	15-25 marks	15-25 marks	15 – 25 marks	10-12 marks	30-37 marks	15 – 20 marks	8 – 10 marks	60 marks	

Intermediate 2 Level Home Economics Analysis of Question Paper for the Year 2004					Context	Health & Food Technology		
					✓	Lifestyle & Consumer Technology		
Question 1						Fashion & Textile Technology		
Component Unit					Skill Assessment			
Question	Management of Practical Activities	Product Development	Consumer Studies	Choice	Recall & Use of Knowledge	Draw Conclusions	Evaluate	Totals
1a	4				4			
b	4				4			
c			4			4		
Totals	8	4			8	4		12

[END OF MARKING INSTRUCTIONS]