#### MARK SCHEME for the May/June 2008 question paper

#### 6065 FOOD AND NUTRITION

6065/01

Paper 1 (Written), maximum raw mark 100

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



| Page 2 |  | 2  | Mark Scheme   | Syllabus         | Paper |  |  |  |
|--------|--|--|---|------------------|-------|--|--|--|
|        |  |  | GCE O LEVEL – May/June 2008   | 6065             | 01    |  |  |  |
|        |  |  | Section A   |                  |       |  |  |  |
| 1      | CO CO  | Balanced diet<br>contains all nutrients (1 mark)<br>in correct proportion/amount (1 mark)                                  |   |                  |       |  |  |  |
|        | (b) (i)  | <ul> <li>(b) (i) carbon – hydrogen – oxygen – nitrogen – phosphorus – sulphur (4 × 1 point) (2 points = 1 mark)</li> </ul> |   |                  |       |  |  |  |
|        | (ii)   | grow<br>repa<br>mair<br>ener   | itenance<br>gy  |                  | [4]   |  |  |  |
|        |  | -  | rmes/hormones/antibodies (4 × 1 mark)   |                  | [4    |  |  |  |
|        | (iii)  |  | <pre>/ protein tains all essential amino acid/indispensable amino a</pre>   | acids            | [1    |  |  |  |
|        | (iv)   | (iv) meat – fish – cheese – milk – eggs – soya (4 × 1 point) (2 points = 1 mark)   |   |                  |       |  |  |  |
|        | (v) LBV protein<br>Lacks at least one essential amino acid/indispensable amino acid<br>or one EAA/IAA is found in poor supply  |  |   |                  |       |  |  |  |
|        | (vi)   |  | als – pulses – nuts (or 1 named example from grou<br>pints = 1 mark)  | p) (2 × 1 point) | [1    |  |  |  |
|        | (vii)  | in sto<br>conv<br>in du<br>conv<br>in ile<br>conv<br>abso  | estion and absorption of protein<br>omach – rennin – clots milk – HCI – pepsin – from g<br>verts proteins to peptones/peptides/polypeptides –<br>nodenum – trypsin – from pancreatic juice –<br>verts proteins to peptones/peptides/polypeptides –<br>num – erepsin – from intestinal juice –<br>verts peptides to amino acids –<br>orbed into blood capillaries – in villi – |                  | 1     |  |  |  |
|        |  | (10 >  | < 1 point – at least 1 point on absorption) (2 points =   | = 1 mark)        | [5    |  |  |  |
|        | <ul> <li>(c) (i) Functions of calcium<br/>formation/maintenance of bones/teeth<br/>muscle function<br/>function of nerves<br/>blood clotting (3 × 1 mark)</li> </ul> |  |   |                  |       |  |  |  |
|        | (ii)   | hard   | <ul> <li>– cheese – bones of canned fish e.g. salmon – bre water – green vegetables (or named example) – w</li> <li>1 point) (2 points = 1 mark)</li> </ul>   |                  | [2    |  |  |  |
|        | (iii)  | Rick   | ets OR Osteomalacia   |                  | [1]   |  |  |  |

| <ul> <li>(v) Vitamin D</li> <li>(vi) liver – fish liver oils (or named e.g.) – oily fish (or named e.g.) – yoghurt eggs – margarine – milk – cheese – butter – red meat – sunlight – (4 × 1 point) (2 points = 1 mark)</li> <li>(d) (i) Saturated fat excess fat is stored – under skin – adipose layer – around internal organs – obesity – contains cholesterol – deposited on artery walls – narrows – blocks – CHD – stroke – breathlessness – hypertension etc. (6 × 1 point) (2 points = 1 mark)</li> <li>(i) Ways to reduce fat less red meat – e.g. beef/pork/lamb – trim fat from meat – do not fry foods – grilling allows excess fat to drip off – reduce chocolate/sweets etc. – fewer cakes/biscuits/pastries – reduce fat in recipes – choose low fat products e.g. yoghurt/cheese – spread butter thinly – use low fat spreads – fewer crisps/nuts – cut chips thicker – less surface area in contact with fat – do not add butter to vegetables – skimmed milk etc. (4 × 1 point) (2 points = 1 mark)</li> <li>(e) Special nutritional needs of young children protein – growth calcium – bones/teeth vitamin D – to absorb calcium iron – formation of iron fluoride – teeth starch – energy some fat – concentrated source of energy – less bulky avoid sugar – tooth decay</li> </ul>  | Page 3   | •  | Mark Scheme   | Syllabus                               | Paper |
|---|--|--|---|--|-------|
| RiCKETS         weak bones – bones bend under weight of body – bow legs –<br>knock knees – ends of limb bones become enlarged – skull fragile         OSTEOMALACIA         brittle bones – bones easily broken         (4 × 1 point) (2 points = 1 mark)         (v)         Vitamin D         (v)         Vitamin D         (d)         liver – fish liver oils (or named e.g.) – oily fish (or named e.g.) – yoghurt eggs – margarine – milk – cheese – butter – red meat – sunlight – (4 × 1 point) (2 points = 1 mark)         (d)         (f)       Saturated fat excess fat is stored – under skin – adipose layer – around internal organs – obesity – contains cholesterol – deposited on artery walls – narrows – blocks – CHD – stroke – breathlessness – hypertension etc.         (f)       Ways to reduce fat         less red meat – e.g. beef/pork/lamb – trim fat from meat – do not fry foods – grilling allows excess fat to drip off – reduce chocolate/sweets etc. – fewer cakes/biscuits/pastries – reduce fat in recipes – chose low fat products e.g. yoghurt/cheese – spread butter to vegetables – skimmed milk etc.         (d) × 1 point) (2 points = 1 mark)       [2]         (e)       Special nutritional needs of young children protein – growth calcium – bones/teeth vitamin D – to absorb calcium iron – formation of red blood cells vitamin C – absorption of iron fituoride – teeth starch – energy some fat – concentrated source of energy – less bulky avoid sugar – tooth decay (12 points = 1 mark)       [4]                                     |  |  | GCE O LEVEL – May/June 2008   | 6065                                   | 01    |
| <ul> <li>(vi) liver – fish liver oils (or named e.g.) – oily fish (or named e.g.) – yoghurt eggs – margarine – milk – cheese – butter – red meat – sunlight – (4 × 1 point) (2 points = 1 mark)</li> <li>(d) (i) Saturated fat excess fat is stored – under skin – adipose layer – around internal organs – obesity – contains cholesterol – deposited on artery walls – narrows – blocks – CHD – stroke – breathlessness – hypertension etc. (6 × 1 point) (2 points = 1 mark)</li> <li>(i) Ways to reduce fat less red meat – e.g. beef/pork/lamb – trim fat from meat – do not fry foods – grilling allows excess fat to drip off – reduce chocolate/sweets etc. – fewer cakes/biscuits/pastries – reduce fat in recipes – choose low fat products e.g. yoghurt/cheese – spread butter thinly – use low fat spreads – fewer crisps/nuts – cut chips thicker – less surface area in contact with fat – do not add butter to vegetables – skimmed milk etc. (4 × 1 point) (2 points = 1 mark)</li> <li>(e) Special nutritional needs of young children protein – growth calcium – bones/teeth vitamin D – to absorb calcium iron – formation of red blood cells vitamin C – absorption of iron fluoride – teeth starch – energy some fat – concentrated source of energy – less bulky avoid sugar – tooth decay (12 points) (2 points = 1 mark)</li> </ul>   | (iv)   | RICI<br>wea<br>knoc<br>OST<br>brittl   | KETS<br>k bones – bones bend under weight of body – bow<br>ck knees – ends of limb bones become enlarged – s<br>FEOMALACIA<br>le bones – bones easily broken  |  | [2    |
| eggs - margarine - milk - cheese - butter - red meat - sunlight -       (4 × 1 point) (2 points = 1 mark)         (d) (i) Saturated fat       excess fat is stored - under skin - adipose layer -         around internal organs - obesity - contains cholesterol -       deposited on artery walls - narrows - blocks - CHD - stroke -         breathlessness - hypertension etc.       (6 × 1 point) (2 points = 1 mark)       [3]         (ii) Ways to reduce fat       less red meat - e.g. beef/pork/lamb - trim fat from meat -       do not fry foods - grilling allows excess fat to drip off -         reduce chocolate/sweets etc fewer cakes/biscuits/pastries -       reduce chocolate/sweets etc fewer cakes/biscuits/pastries -         reduce fat in recipes - choose low fat products e.g. yoghurt/cheese -       spread butter thinly - use low fat spreads - fewer crisps/nuts -         cut chips thicker - less surface area in contact with fat -       do not add butter to vegetables - skimmed milk etc.         (4 × 1 point) (2 points = 1 mark)       [2         (e) Special nutritional needs of young children       protein - growth         calcium - bones/teeth       vitamin D - to absorb calcium         iron - formation of red blood cells       vitamin D - to absorption of iron         fluoride - teeth       starch - energy         some fat - concentrated source of energy - less bulky       avoid sugar - tooth decay         (12 points) (2 points = 1 mark)       [6] </td <td>(v)</td> <td>Vita</td> <td>min D</td> <td></td> <td>[1]</td> | (v)  | Vita   | min D   |  | [1]   |
| <ul> <li>excess fat is stored – under skin – adipose layer –<br/>around internal organs – obesity – contains cholesterol –<br/>deposited on artery walls – narrows – blocks – CHD – stroke –<br/>breathlessness – hypertension etc.<br/>(6 × 1 point) (2 points = 1 mark) [3</li> <li>(ii) Ways to reduce fat<br/>less red meat – e.g. beef/pork/lamb – trim fat from meat –<br/>do not fry foods – grilling allows excess fat to drip off –<br/>reduce chocolate/sweets etc. – fewer cakes/biscuits/pastries –<br/>reduce fat in recipes – choose low fat products e.g. yoghurt/cheese –<br/>spread butter thinly – use low fat spreads – fewer crisps/nuts –<br/>cut chips thicker – less surface area in contact with fat –<br/>do not add butter to vegetables – skimmed milk etc.<br/>(4 × 1 point) (2 points = 1 mark) [3</li> <li>(e) Special nutritional needs of young children<br/>protein – growth<br/>calcium – bones/teeth<br/>vitamin D – to absorb calcium<br/>iron – formation of red blood cells<br/>vitamin C – absorption of iron<br/>fluoride – teeth<br/>starch – energy<br/>some fat – concentrated source of energy – less bulky<br/>avoid sugar – tooth decay<br/>(12 points) (2 points = 1 mark) [4</li> </ul>   | (vi)   | eggs   | s – margarine – milk – cheese – butter – red meat -   |  | [2]   |
| <ul> <li>less red meat – e.g. beef/pork/lamb – trim fat from meat –<br/>do not fry foods – grilling allows excess fat to drip off –<br/>reduce chocolate/sweets etc. – fewer cakes/biscuits/pastries –<br/>reduce fat in recipes – choose low fat products e.g. yoghurt/cheese –<br/>spread butter thinly – use low fat spreads – fewer crisps/nuts –<br/>cut chips thicker – less surface area in contact with fat –<br/>do not add butter to vegetables – skimmed milk etc.<br/>(4 × 1 point) (2 points = 1 mark)</li> <li>(2</li> <li>(e) Special nutritional needs of young children<br/>protein – growth<br/>calcium – bones/teeth<br/>vitamin D – to absorb calcium<br/>iron – formation of red blood cells<br/>vitamin C – absorption of iron<br/>fluoride – teeth<br/>starch – energy<br/>some fat – concentrated source of energy – less bulky<br/>avoid sugar – tooth decay<br/>(12 points) (2 points = 1 mark)</li> </ul>  | (d) (i)  | exce<br>arou<br>depo<br>brea   | ess fat is stored – under skin – adipose layer –<br>und internal organs – obesity – contains cholesterol<br>osited on artery walls – narrows – blocks – CHD – s<br>athlessness – hypertension etc.  |  | [3]   |
| protein – growth<br>calcium – bones/teeth<br>vitamin D – to absorb calcium<br>iron – formation of red blood cells<br>vitamin C – absorption of iron<br>fluoride – teeth<br>starch – energy<br>some fat – concentrated source of energy – less bulky<br>avoid sugar – tooth decay<br>(12 points) (2 points = 1 mark)   | (ii)   | less<br>do n<br>redu<br>redu<br>spre<br>cut o<br>do n                                | red meat – e.g. beef/pork/lamb – trim fat from mea<br>not fry foods – grilling allows excess fat to drip off –<br>uce chocolate/sweets etc. – fewer cakes/biscuits/pa<br>uce fat in recipes – choose low fat products e.g. yog<br>ead butter thinly – use low fat spreads – fewer crisps<br>chips thicker – less surface area in contact with fat -<br>not add butter to vegetables – skimmed milk etc. | stries –<br>µhurt/cheese –<br>s/nuts – | [2]   |
| [Section A Total: 40 marks  | prot<br>calc<br>vita<br>iron<br>vita<br>fluo<br>star<br>son<br>avo | tein –<br>cium -<br>min E<br>min C<br>min C<br>oride -<br>rch –<br>ne fat<br>oid sug | - growth<br>– bones/teeth<br>D – to absorb calcium<br>rmation of red blood cells<br>C – absorption of iron<br>– teeth<br>energy<br>t – concentrated source of energy – less bulky<br>gar – tooth decay  |  | [6]   |
|   | ,  |  | , , , , , , , , , , , , , , , , , , ,   | [Contian A Ta                          |       |

|   | Ра  | ge 4   | Mark Scheme  |  | Syllabus                         | Paper |
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|   |     |  | GCE O LEVEL – May/Ju   |  | 6065                             | 01    |
|   |     |  | Sect   | ion B  |                                  |       |
| 2 | (a) | add mois<br>add nutri<br>add colo<br>add flavo<br>countera<br>add inter<br>add cont                            | ents – custard, choco<br>ur – jam sauce, cho<br>ur – cheese sauce,<br>ct richness – apple sauce w<br>orange sauce<br>est/variety – curry sauce et<br>rasting texture – bread sauce w   | late sauce, chees<br>ocolate sauce, par<br>mint sauce, apple<br>ith roast pork,<br>with duck etc.<br>c.<br>vith roast poultry,<br>with fried fish etc. | rsley sauce etc.<br>e sauce etc. | [4]   |
|   | (b) | broader l<br>over gen<br>prevent l<br>remove f<br>flour doe<br>return to<br>to cook s<br>starch ge<br>add chee | - add flour – stir – with wooden sp<br>base/does not conduct heat – fits<br>the heat – until sandy/crumbly – d<br>burning of fat/flour – spoiling colou<br>rom heat – add milk – gradually –<br>s not gelatinise – stir all the time -<br>heat – bring to boil – stir all the time<br>tarch – to prevent floury/raw flavo<br>elatinises – should coat the back of<br>ses off heat – stir until melted<br>) (2 points = 1 mark) | corners of pan –<br>o not allow to brow<br>ur – and flavour –<br>· prevent lumps –<br>- smooth liquid –<br>me – boil for 3 mir<br>our – thickens –     | nutes –                          | [4]   |
|   | (c) | macaron<br>cauliflow   |  | gne<br>a bake  |                                  | [1]   |
|   | (d) | milk adde<br>milk adde<br>too much<br>not stirre   | <b>a for lumps in sauce</b><br>ed too quickly<br>ed on heat<br>n milk added at a time<br>d when milk added<br>d when boiling (3 × 1 mark)  |  |                                  | [3]   |
|   | (e) | reduce n<br>use sem<br>use less<br>choose c  | <b>reduce fat in cheese sauce</b><br>hargarine/use low fat spread<br>-skimmed/skimmed milk<br>cheese<br>heese with a stronger flavour and<br>at cheese etc. (3 × 1 mark)   | l use less   |                                  | [3]   |

| Page 5   | Mark Scher   |   | Syllabus          | Paper |
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|  | GCE O LEVEL – May  | y/June 2008   | 6065              | 01    |
| cheap<br>easy to s<br>versatile<br>starch/ca<br>lasts a lo<br>many va<br>staple for<br>readily a<br>etc. | tore e<br>urbohydrate u<br>ng time e<br>rieties fi<br>od s   | easy to grow<br>easy to transport<br>used for sweet and sa<br>used for energy<br>easy to process<br>illing<br>source of LBV protein | -                 | [3    |
| maize/co   | barley – oats – rye – rice –<br>rn/mealie meal – millet – sorg<br>) (2 points = 1 mark)  | hum   |                   | [2    |
| check reg<br>covered<br>sealed –<br>keep cer<br>use in ro<br>whole gra                                   | of cereals<br>y – to prevent mould –<br>gularly – can be attacked by w<br>containers – prevent entry of c<br>keep out moisture etc. –<br>eal bins off ground – prevent a<br>tation – do not mix old and nev<br>ain cereals do not keep long –<br>) (2 points = 1 mark) | dust etc. –<br>attack by rats etc. –<br>w supplies –  | – etc.            | [4    |
| <u>Uses</u><br>sauces –<br>SELF-RA<br>70–72%<br>winter wł  | 2–73% extraction – no raising<br>batters – shortcrust pastry – t<br>AISING<br>extraction – soft/weak flour – I<br>heat –<br>intity of raising agent added  | biscuits – shortbread   | – very rich cakes |       |
| STRONC<br>plain – sj<br>and elasi<br><u>Uses</u>   |  |   |                   |       |
| WHOLEI<br>100% ex<br>due to pr<br>or roller r<br>heavy/clo<br><u>Uses</u>                                |  | nutty flavour –<br>ground –<br>in germ becomes ran  | cid               |       |
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|                                 |  | Scheme   | Syllabus            | Paper         |
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|                                 | GCE O LEVEL  | . – May/June 2008  | 6065                | 01            |
| 80–85%<br>may be<br><u>Uses</u> | I FLOUR<br>extraction – no coarse l<br>mixed with white flour<br>astry, scones | bran particles – better rise –   |                     |               |
| WHEAT<br>70% ext                | GERM<br>raction – added treated  | wheat germ – rich in B vitan   | nins –              |               |
|                                 | ntain at least 10% germ<br>nt fat and enzymes spoi                             | – germ cooked with salt –<br>ling quality –                                |                     |               |
| CORNF<br>from ma<br><u>Uses</u> | LOUR<br>ize – 100% starch  |  |                     |               |
| thickens<br>3 named             |  | ) 6 facts (6 × 1 point) 3 exar   | nples (3 × 1 point) | [(            |
|                                 |  |  |                     |               |
| wash be                         | ving vitamin C<br>fore cutting   | <ul> <li>so vitamin C does not</li> </ul>                                  |                     |               |
|                                 | ead of cutting<br>hred thinly  | <ul> <li>tear follows cell walls</li> <li>less cell damage</li> </ul>      | and does not dama   | ge            |
| use a sh                        | arp knife  | <ul> <li>to prevent bruising cell</li> </ul>                               |                     |               |
| prepare                         | just before cooking  | <ul> <li>vitamin C destroyed b<br/>oxidation</li> </ul>                    | y enzymes from cel  | I walls and b |
| do not s                        | oak  | <ul> <li>vitamin C is water solu</li> </ul>                                | uble                |               |
|                                 | nount of water   | <ul> <li>vitamin C is water solu</li> </ul>                                |                     |               |
| boil wate<br>add veg            | . in small amounts   | <ul> <li>enzyme/ascorbase de<br/>– so temperature stays</li> </ul>         |                     |               |
| lid on pa                       | in   | <ul> <li>prevents oxidation</li> </ul>                                     |                     |               |
| do not o                        |  | <ul> <li>vitamin C destroyed b</li> <li>contains dissolved vita</li> </ul> |                     |               |
|                                 | king liquid in sauces<br>dd bicarbonate of soda                                | <ul> <li>alkaline, so destroys v</li> </ul>                                |                     |               |
| serve im                        | mediately  | <ul> <li>heat/oxidation destroy</li> </ul>                                 | ( )                 |               |
| (10 poin                        | ts) (2 points = 1 mark)  |  |                     |               |
| (b) Differen                    | t uses of sugar in coo   | king   |                     |               |
| sweeten                         |  | <ul> <li>drinks, sauces, desse</li> </ul>                                  | rts, cakes          |               |
| preserva                        | es energy value<br>ative   | <ul> <li>beverages etc.</li> <li>high concentration of s</li> </ul>        | sugar prevents grov | vth of micro- |
|                                 |  | organisms in jam   |                     |               |
| improve                         | s colour of baked goods  | <ul> <li>cakes with brown sugar caramelises in or</li> </ul>               |                     |               |
| retains r                       | noisture/  | <ul> <li>rich cakes</li> </ul>   | ary near or oven    |               |
|                                 | vents baked products dr  |  |                     |               |
|                                 | t to incorporate air<br>s development of gluten/                               | <ul> <li>creamed cake mixture</li> </ul>                                   | es                  |               |
| •                               | es a crumbly result  | <ul> <li>cakes and rich pastrie</li> </ul>                                 | es                  |               |
| food for                        | -  | <ul> <li>fermentation of bread</li> </ul>                                  | dough               |               |
|                                 | oagulation of protein  |  |                     |               |
| -                               | ggs and gluten   | <ul> <li>more time for gases to</li> </ul>                                 | o expand            |               |

| Page 7  | Mark   | Scheme   | Syllabus  | Paper      |
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|   | GCE O LEVEL  | – May/June 2008  | 6065  | 01         |
| eg<br>retards<br>cake ic<br>glaze<br>carame<br>confec |  | <ul> <li>meringues</li> <li>frozen foods</li> <li>marzipan, royal icin</li> <li>sugar and water gla<br/>etc.</li> <li>desserts e.g. crème</li> <li>toffee, sweets, fudg</li> </ul> | aze gives sticky layer<br>e caramel, crème brul | -          |
| (c) Food I  | abelling   |  |   |            |
| • •   | formation to consumer                                  | <ul> <li>some information is</li> </ul>  | a legal requirement                             |            |
| name o  | of product   | <ul> <li>so consumer knows</li> </ul>  | s what is being bough                           | t          |
| descrip   | otion  | <ul> <li>further details e.g. t</li> </ul>   |   |            |
| brand   |  | <ul> <li>reliability, knows wh</li> </ul>  | •   |            |
|   | of manufacture   | <ul> <li>recognise a s some</li> </ul>   | thing seen before                               |            |
|   | s / 'phone / website of man<br>case of need to contact | nufacturer   |   |            |
| ingredi   | ents – descending order                                | <ul> <li>by weight</li> </ul>  |   |            |
| may ha  | ave allergies etc.                                     |  |   |            |
| cooking   | g instructions   | <ul> <li>for best result</li> </ul>  |   |            |
| storage   | e instruction  | <ul> <li>to maintain best cor</li> </ul>   | ndition   |            |
| serving   | g suggestion   | <ul> <li>to give ideas to con</li> </ul>   | sumer   |            |
| picture   | of product   | <ul> <li>to give information of</li> </ul>   | •   |            |
| weight  |  | <ul> <li>– can calculate unit c</li> </ul>   | •   |            |
|   | l claims   | <ul> <li>reduced fat/no adde</li> </ul>  |   | in C etc.  |
| -   | rian society symbol                                    | <ul> <li>so vegetarians know</li> </ul>  |   |            |
|   | ear symbol   | <ul> <li>gluten free/coeliacs</li> </ul>   |   |            |
|   | e symbol<br>nal information                            | <ul> <li>consumer knows ho</li> <li>consumer knows no</li> </ul>   |   | 0a         |
|   | prie content   | <ul> <li>may be calorie cour</li> </ul>  | •   | •          |
| sugar   |  | <ul> <li>useful for diabetics</li> </ul>   | iting, trying to lose we                        | eight etc. |
| fat   |  | <ul> <li>states amount of sa</li> </ul>  | turated fat –                                   |            |
| iat   |  | <ul> <li>may have CHD – or</li> </ul>  |   | thier diet |
| salt  |  | <ul> <li>– control salt intake if</li> </ul>   |   |            |
|   | es identified  | <ul> <li>may wish to avoid/a</li> </ul>  |   |            |
| price   |  | <ul> <li>if on special offer/ca</li> </ul>   | -   | r products |
| ' etc   | с.   |  |   | •          |
|   | ints) (2 points = 1 mark)                              |  |   |            |

| Page 8   | Mark Scheme   |  | Syllabus  | Paper   |  |  |
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|  | GCE O LEVEL – May/Jur   | ne 2008  | 6065  | 01  |  |  |
| enjoy foc<br>to cope v<br>to prever<br>to give va<br>new proc<br>to have a<br>useful in  | <ul> <li>(a) Reasons for preserving <ul> <li>enjoy food out of season</li> <li>to cope with a glut</li> <li>to prevent waste</li> <li>to give variety – food can be frozen, dried</li> <li>new products made – jam, pickles etc.</li> <li>to have a store of food</li> <li>useful in emergencies etc.</li> <li>(4 points) (2 points = 1 mark)</li> </ul> </li> </ul>  |  |   |   |  |  |
| vege<br>air s<br>oper<br>allov<br>use<br>follov<br>set f<br>do n<br>cool<br>cove<br>etc. | hould be removed form package<br>n freeze soft fruit/berries/peas<br>v head space for liquids<br>oldest stocks first<br>w storage times as directed<br>reezer at 'fast freeze' 2–3 hours<br>before use  | <ul> <li>to prevent 'fre</li> <li>can take the a</li> <li>liquids expand</li> <li>food still spoil</li> <li>some foods e</li> <li>to prevent form<br/>damage t</li> <li>to allow temper</li> </ul> | s but not as quickly<br>.g. with fat deterior<br>mation of large ice<br>to cell wall/loss of li<br>erature to remain lo<br>ture | f surface<br>om pack<br>ate quicker<br>crystals/<br>quid<br>ow enough |  |  |
|  | age temperature   | . ,  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   | [1]   |  |  |
| bact<br>bact<br>wate<br>temp<br>bact   | sons why freezing delays food s<br>eria are dormant (2 points) (if state<br>eria cannot multiply<br>er frozen therefore unavailable<br>perature too low<br>eria need warmth – and moisture to<br>points) (2 points = 1 mark)  | d that bacteria ar   | e sleeping/resting -  |   |  |  |
| nam<br>spec  | rmation on frozen food label<br>e of food – date frozen – weight – r<br>cial points e.g. added sugar – 'best<br>pints) (2 points = 1 mark)  |  |   | [2]   |  |  |
| wate<br>squa<br>tight<br>poly<br>waxe<br>thin<br>can<br>grea<br>meta<br>mois             | es of packaging<br>erproof – strong so will not tear/be e<br>are shapes are easier to stack – les<br>ly-fitting lids – containers must be a<br>thene bags – Tupperware boxes –<br>ed cartons for soup – will not absor<br>polythene/cling film/greaseproof pa<br>separate for quicker defrosting –<br>iseproof paper/foil to protect sharp<br>al coated ties/plastic clips to seal ba<br>sture proof tape etc.<br>pints) (2 points =1 mark) | es waste of space<br>airtight<br>ice cream carton<br>b liquids –<br>iper to separate s<br>bones – avoid da   | s – tin foil –<br>slices of meat etc.<br>image to plastic ba  | g —<br>[3]  |  |  |
|  |   |  | [Section B Tot  | tal: 45 marks)  |  |  |

|   | Page 9    |  | Mark Scheme  |  | Syllabus  | Paper |  |  |  |
|---|-----------|--|--|--|---|-------|--|--|--|
|   |           |  | GCE O LEVEL – May/Ju   | ne 2008  | 6065  | 01    |  |  |  |
|   | Section C |  |  |  |   |       |  |  |  |
| 6 | (a)       | make us<br>buy store<br>have a fi<br>shop in r<br>avoid foc<br>only buy<br>cheaper<br>buy food   | noney<br>and vegetables in season<br>e of special offers in shops<br>e's own brand<br>xed amount of money to spend<br>narkets instead of supermarkets<br>od that has been prepared<br>enough for the purpose<br>cuts of meat<br>reduced at end of day<br>drate foods are filling – and cheap   |  | coupons<br>g list<br>d of credit<br>er packages<br>ods can be expensive<br>er foods at home | e     |  |  |  |
|   |           | (10 point  | s) (2 points=1 mark)   |  |   | [5]   |  |  |  |
|   | (b)       | make use<br>microway<br>frying, st<br>make use<br>prepare a<br>make ste<br>do not pe<br>cook and<br>do not ov<br>one stag<br>cut potat                         | Saving time<br>make use of electrical equipment – mixer/blender etc.<br>microwave oven pressure cooker<br>frying, stir frying and grilling are quick methods<br>make use of convenience foods – e.g. frozen puff pastry<br>prepare and cook food in bulk – freeze some – saves time another day<br>make stews and casseroles – require little attention – fewer pans to wash<br>do not peel vegetables e.g. carrots, potatoes – scrub to remove soil<br>cook and serve in same dish – saves washing up<br>do not overcook food – cook when required – no time spent on re-heating<br>one stage method of making rich cakes<br>cut potatoes etc. into smaller pieces – cook quicker<br>lids on pans – cook quicker etc. |  |   |       |  |  |  |
|   | (c)       | Saving fu<br>use stea<br>pressure<br>cut food<br>lid on pa<br>small am<br>do not ov<br>microway<br>size of pa<br>gas flam<br>cook the<br>batch ba<br>preheat f | es) (2 points=1 mark)<br><u>uel</u><br>mer – several layers share one ho<br>cooker – cooks quicker so less fu<br>into smaller pieces – cooks quicker<br>n – retain heat – cooks faster<br>nount of water in kettle/pan – only<br>vercook – cook when needed so n<br>ve oven – faster – less fuel<br>an should fit hot plate – to avoid w<br>es should not come around base of<br>whole meal in the oven or on top<br>ke to use all oven shelves – cook<br>for no more than 10 minutes<br>leat before cooking finished – use  | heat what is need<br>o need to reheat<br>asting fuel around<br>of pan – heat is w<br>of the stove –<br>several different i | d base of pan<br>asted<br>tems at once  | [5]   |  |  |  |
|   |           | (10 point  | s) (2 points=1 mark)   |  |   | [5]   |  |  |  |

| Page 10   | Mark Scheme Syllabus   |  | Paper   |     |
|---|--|--|---|-----|
|   | GCE O LEVEL  | – May/June 2008  | 6065  | 01  |
| introduce<br>gas expa<br>makes m<br>easier to   | nce of raising agents<br>es gas – or substances fr<br>ands – on heating – mixtu<br>nixtures light – open textu<br>digest – more attractive<br>) (2 points = 1 mark)  | ire –  | during preparation –  | [2  |
| sieving<br>creaming<br>rubbing i<br>whisking<br>whisking<br>beating<br>rolling ar<br>5 method                             |  | <ul> <li>flour for shortcrust pa</li> <li>fat and sugar for rich</li> <li>fat and flour for shortd</li> <li>meringue, soufflé</li> <li>Swiss roll, sponge ca</li> <li>eggs before adding to</li> <li>flaky pastry, puff past</li> <li>es (5 × 1 mark)</li> </ul>   | cakes<br>crust pastry<br>ake<br>o creamed mixtures                          | [5  |
| soft doug<br>knead th<br>rise in wa<br>knead fo<br>shape be<br>prove in<br>leave un<br>bake in a<br>5 rules (<br>5 explan | hen making bread with<br>gh<br>oroughly<br>arm place<br>r second time<br>efore proving<br>a warm place<br>til double size<br>a hot oven<br>$5 \times 1$ point)<br>ations (5 x 1 point)<br>s) (2 points = 1 mark) | <ul> <li>yeast</li> <li>so gas can push up th</li> <li>develop gluten</li> <li>encourage fermentati</li> <li>break large bubbles of oxygen to encourage</li> <li>or gas will be lost</li> <li>replace carbon dioxid</li> <li>open texture to loaf/if</li> <li>to kill yeast/stop fermentation</li> </ul> | on<br>of gas<br>yeast growth<br>e lost during kneadir<br>overproved may col |     |
| colourles<br>will give<br>and prev<br><u>Uses</u><br>in cream<br><u>Storage</u><br>in an airt                             | ition<br>ate of soda – alkali – creas<br>residue – with moist –<br>off a fixed amount of gas<br>ent substances reacting<br>ed cake mixtures, scones<br>ight container – dampnes                                  | am of tartar – acid – gives<br>heat – contains a starch fil<br>– suitable for general use<br>s, suet pastry etc.<br>ss encourages a reaction b<br>f – resulting in a poor react  | ller – to absorb mois<br>–<br>petween components                            | S — |

#### [Section B Total: 60 marks]

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