



## **General Certificate of Education**

# **Health and Social Care 8621/8623**

## **HC06**

# **Mark Scheme**

*2008 examination – June series*

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

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### **Quality of written communication**

The quality of written communication is assessed in all assessment units where candidates are required to produce extended written material. Candidates will be assessed according to their ability to:

- Select and use a form and style of writing appropriate to purpose and complex subject matter
- Organise relevant information clearly and coherently, using specialist vocabulary when appropriate
- Ensure that text is legible, and that spelling, grammar and punctuation are accurate, so that meaning is clear.

The assessment of quality of written communication must be included in question **1(a)(ii), 2(a) and 3(b)**.

**HC06 JUNE 2008 MARK SCHEME**

- 1(a)(i) Infection/inflammation (1) of membranes/meninges (1) which cover/protect brain/spinal cord (1) caused by bacteria/viruses (1) allow reference to mild or severe forms (1)  
Not-in brain. max 3      3 marks
- (a)(ii) Any 2 of fever AW/high temperature/lethargy/tiredness AW/skin rash (not just spots)/aching stiff neck/headache/not liking bright lights AW/vomiting (sickness) nausea.  
Mark 1<sup>st</sup> 2 responses. 2 marks
- (b)(i) Fungus/parasite (1)  
Ignore name of organism. 1 mark
- (b)(ii) Ref to: skin being – itchy (1) red (1) (raised) scaly patches (1) may blister/ooze (1) description of ‘ring’ – red edge – normal skin interior AW (1)  
may lose hair (scalp/beard) (1) nails discoloured/thick/crumble (1) max 2      2 marks
- (c)(i) Ref to: through food/drink (1) poor hygiene practice or example (1) sexual transmission (1) cuts/wounds (1) max 2      2 marks
- (c)(ii) Ref to: damage to cells/tissues (1) lack of food taking nutrients from body cells (1)  
stimulating body defences to react AW (1) max 2      2 marks
- (c)(iii) Ref to: good hygiene practices e.g. hand washing/avoiding cross contamination/medical precautions – immunisation at appropriate times/careful food preparation AW/avoiding contaminated water max 3      3 marks
- Total 15 marks
- 2(a) Ref to: Food Allergen 1 – least common of 3 allergens (1)  
Allergen 2 – 8x more common than Allergen 1 (2004)/Allergen 3 – 16x more common in 2004 (1)  
Allergen 2 – 12/13x more common/Allergen 3 – 24x more common 2005 (1)  
less allergic reactions in 2005 cf 2004 (1) about half as many cases AW (1)  
Allow food not common in diet (1)\*  
Food Allergen 2 – numbers stable 2004/2005 AW (1)  
Food Allergen 3 – twice as common (both/other years) (1)  
Food Allergen 3 – most common allergen of the three AW (1)  
Numbers stable 2004/05 (1) allow most common food in diet (1) max 6  
\*Max 4 for numerical c.f. and considerations, 2 for “higher” skills. 6 marks
- (b)(i) Ref to: inappropriate/abnormal/exaggerated reaction (1) of immune system (1) to normally harmless substances AW (1) 3 marks
- (b)(ii) Ref to: small amounts of substance AW (1) placed a patch/foil/disc taped to skin/scratched gently (using sterile needle) (1) usually on arm/back (1) skin observed for redness/swelling (1) max 3      3 marks
- (b)(iii) Any 3 of: strawberries/eggs/shellfish/nuts  
dairy products/seafood or example max 3      3 marks
- Total 15 marks

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- 3(a)(i) Ref to: Alice having eye disorder (1) front part of eye/cornea/lens (1) not regular/not symmetrical/not spherical (1) causes focusing problems/ blurred vision (1)  
Not just reference to eye shape max 3      3 marks
- (a)(ii) Ref to Alice having: hearing disorder (1) sound sensations in her ears/head AW (1) not produced by external source/false/perceived noise (1) allow ref to ringing in ears/buzzing/whistling/hissing  
sound may be of any pitch/type (1) continuous or intermittent (1) may be caused by loud noise/aging/other hearing problems max 3      3 marks
- (b)(i) Dentifrice – dental paste/powder (1) abrasive AW (1) – removes material/food/waste/plaque AW from tooth/gums (1) max 2      2 marks
- (b)(ii) Flossing – use of a thin nylon/ribbon/filament/string (1) pulled back and forward AW between teeth (1) removing material/preventing build up of food/debris/plaque AW (1)  
Not tape max 2      2 marks
- (b)(iii) Reference to: brushing/flossing removing food material/debris (1) from/ around enamel/crown (1) reduces microbial activity AW (1) preventing sugar (1) forming acid (1) ref plaque (1) reducing demineralisation risk (1) allow ref to reducing risk of gingivitis (1) an abscess formation (1) max 5      5 marks
- Total 15 marks
- 4(a)(i) Any 3 of: stress/dehydration/hangover/prolonged travel/certain foods or examples – chocolate/cheese/stuffy atmosphere/hunger  
Not alcohol max 3      3 marks
- (a)(ii) Ref to: tension (1) stretching (1) of meninges (1) scalp/blood vessels (1)  
Not pressure max 3      3 marks
- (a)(iii) Ref to: migraines as: severe AW headache (1) preceded/accompanied by visual/stomach disturbance AW (1) long lasting/up to 3 days (1) one sided (1) 2 marks
- 4(b)
1. Ref to blackheads/comedones: sebum/oil secretion (1) from hair follicle glands (1) blocking pores in skin (1) darkening (1) through excess skin pigment/melanin (oxidation) (1)  
Not dirt max 3      3 marks
  2. Ref to: blister caused by rubbing/friction/burns (1) skin/epidermis and dermis space raised/filled with watery fluid/fluid to aid healing/ sometimes blood/pus (1)  
Not just liquid max 2      2 marks
  3. Ref to scabs form: when broken skin/wound AW heals (1) following blood clot/fibrin net/skin regrows underneath (1) max 2      2 marks
- Total 15 marks

NB: Underlined – technical terms needed.

Paper Total 60 marks

