



## **General Certificate of Education**

# **Health and Social Care**

**8621/8623**

**HC06**

# **Mark Scheme**

*2009 examination - June series*

**This mark scheme uses the [new numbering system](#) which is being introduced for examinations from June 2010**

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.

### Question 1

- 0 1** Any one of athlete's foot/thrush – candidiasis Allow food poisoning  
(1 mark)
- 0 2** Ref to Dawn's skin being red (1) itchy (1) in a 'ring' circle AW (1) with raised/scaly patches (1) may form blisters/ooze (1) may suffer hair loss (1) nails may become thick/crumble/dicolour (1) ignore rash/round/swelling/inflamed  
Not scab/squiggly lines  
(2 marks)
- 0 3** Parasites (1) allow insect  
Not mites  
(1 mark)
- 0 4** Ignore refs to eggs/nits in hair  
Ref to Dawn having (tiny) red spots/bite marks (1) itch (intensely) (1) cause her to scratch (1) may get dermatitis (1) possible to develop impetigo infection – a bacterial infection (1)  
(2 marks)
- 0 5** Ref to suitable lifestyle factors e.g. poor personal hygiene/excessive drinking of alcohol/drug abuse/smoking/poor diet/sleep deprivation/unprotected sex 1 mark any of the 2 answers  
ref to appropriate linked reasons e.g. increasing chances of microbial entry/  
damage to immune system 1 mark each  
(4 marks)
- 0 6** Ref to elderly's immune systems (1) lose effectiveness AW (1)  
(2 marks)
- 0 7** Any 3 of good food – drink hygiene practice or example/regular – thorough washing/protection in sexual activities/immunisation/avoiding contact with animal faeces  
Allow specific examples such as individual bedding for scabies  
(3 marks)

## Question 2

- 0 8** Ref to: generally little difference between males and females for any/all of the allergens (1)  
Allergen 1 more cases for males cf females (1) Allergen 2/3 vice versa  
Allergen 1 most common (1)  
Allergen 3 least common/rare (1)  
Numerical comparisons e.g. Allergen 2 is approximately 5x more common than Allergen 3 for males/females/both (1)  
Allergen 1 is approx. 3x more common than Allergen 2 for males/females/both (1)  
Allergen 1 is 14x more common than Allergen 3 (1) for males/females/both (1)  
Allow suggestions for why results similar or different e.g. allergic response not gender related (1) Allergen 1 a widespread source e.g. grass pollen (1) Allergen 3 short exposure period (1)  
Max 4 for numerical c.fs 2 for reasons (6 marks)
- 0 9** Any 3 of: pollen/animal dander – feathers/dust mites/mould spores/fungal (3 marks)
- 1 0** Ref to: **small** AW amount of allergens AW (1) either scratched gently onto skin or taped on patch to skin (1) location – arm/back (1) later observed for reaction/redness/swelling (1) (3 marks)
- 1 1** Ref to Max's first exposure to strawberries – body 'mistakes' AW strawberry for harmful substance (1) immune system becomes sensitised AW (1) but no symptoms develop AW (1) Ignore foreign/intruder substance (3 marks)

## Question 3

- 1 2** Ref to Alan's lenses (1) losing elasticity AW (1) so power of focussing power accommodation reduced AW (1) Alan unable to see near objects clearly (1) eventually all focussing power lost (1) (3 marks)
- 1 3** Ref to astigmatism: cornea/lens (1) not normal/'spherical'/smooth curve AW (1) unevenness causes magnifying effect to be greater in one direction than another/blurring of vertical or horizontal lines (1) (3 marks)
- 1 4** Ref to conjunctivitis as inflammation (1) (effects are redness/discomfort/discharge) (of conjunctiva) outer layer/front of eye (1) due to infection (1) by bacteria/viruses (1) or allergic reaction (1) effects are redness/discomfort/discharge (1) (3 marks)
- 1 5** Progressive deafness called presbycusis/presbycusis (1) sensorineural deafness (1) due to degeneration of hair (cells) (1) and nerve fibres (1) in cochlea (1) in inner ear (1) sounds less clear/higher tones become inaudible (1) background noise makes effects worse (1) can be made worse by high noise levels/reduced blood supply/toxic damage by drugs (1)  
Allow also ossicle damage (1) middle ear (1) (6 marks)

#### Question 4

- 1 6** Ref to: stress/dehydration/hangover/prolonged travel/chocolate/stuffy atmosphere  
Not hunger/alcohol  
(4 marks)
- 1 7** Ref to: meninges (1) which are membranes around the brain (1) the scalp (1) blood  
vessels (1) and muscles (1) max 2 being under tension (1) and/or stretched (1)  
(4 marks)
- 1 8** Ref to a migraine as a more severe headache (1) preceded /accompanied by  
visual/stomach disturbance (1) may last longer than normal headaches AW (1) may be  
triggered by food/tiredness/menstruation (1) max 2  
One side of head (1)  
(2 marks)
- 1 9** Ref to: stomach pain cramps (1) vomiting sickness nausea (1) diarrhoea AW (1)  
(3 marks)
- 2 0** Virus/Norwalk virus (1)  
(1 mark)
- 2 1** Chemical or e.g. fruit juice in zinc container/toxic food e.g. toadstools/fungi  
Red Kidney beans not thoroughly cooked.  
(1 mark)