



**General Certificate of Education
June 2010**

Health and Social Care

HC06

Final

Mark Scheme

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Question 1

- 0 | 1** Any one of head lice/tapeworm/athlete's foot/ringworm
Allow other named examples of human parasites e.g. liver fluke
(1 mark)
- 0 | 2** Ref to Rhona having itchiness (1) dark/grey wavy lines in skin (1) round spots/
lumps (1) inflamed/ red skin (1) on arms, hands, feet, armpits and/or buttocks if
feature correct (1) max 2
(2 marks)
- 0 | 3** Bacterium/Bacteria
(1 mark)
- 0 | 4** Ref to Rhona having **vaginal** discharge/ inflammation AW (1) burning
sensation/pain/irritation when urinating (1) cloudy urine (1) max 2
(2 marks)
- 0 | 5** Any 3 of: through food or drink/through open wounds/touching/contact/breathed in
– droplet infection AW/poor personal hygiene – examples/sharing towels
(3 marks)
- 0 | 6** Any 2 of releasing toxins AW/taking nutrients from host cells/stimulate body's
efforts at defence/immune system
(2 marks)
- 0 | 7** Ref to young (1) when immune system not fully developed (1) elderly (1) when
immune system deteriorating (1) people who are ill (1) reduced ability of
body/immune system to respond (1) lifestyle issues – alcohol abuse/drug use (1)
damaging/weakening body defences (1) max 2 + 2
(4 marks)

Question 2

- 0 | 8** Ref to an allergen as a **normally harmless** substance AW (1) which causes an
abnormal reaction in some individuals (1)
(2 marks)
- 0 | 9** Animal dander – feathers/fur or description (1) dust mites (1) fungal/mould spores
(1)
(3 marks)

1 0 Ref to small sample/weak form of allergen (1) placed on disc/taped to the skin OR gently scratched onto skin with a needle (1) left for a set time AW (1) max 3 redness/swelling looked for (1) if present then allergic to substance/not present then not allergic (1) max 2
NOT – reaction unless qualified
(5 marks)

1 1 Ref to Steve's lenses (1) becoming cloudy AW (1) due to change in protein structure AW (1) Allow reference to similarity with egg white when cooked – less light passes through /max 3
Ref to Steve's vision becoming blurred/reduced (1) focussing power reduced AW (1) light unable to reach the retina (1) max 2
(5 marks)

Question 3

1 2 Ref to progressive deafness in the elderly being hearing loss caused by sensorineural loss/damage (1) to the sensory hairs/ hair cells AW (1) in the cochlea (1) of the inner ear (1) preventing sound vibrations being transferred correctly qualified(1) into nerve transmissions/to auditory nerve (1) Allow ref to ossicle damage/wear/ named bones (1) in the middle ear (1) max 5
(5 marks)

1 3 Ref to Myra's hearing deteriorating causing difficulties in noisy environments/hearing dull AW (1) high sounds not being heard/low sounds only heard (1)
(2 marks)

1 4 Gum disease AW
(1 mark)

1 5 Tooth loss (1) ulceration (1) Gum shrinkage/inflammation/bleeding/soreness (1) max 2
(2 marks)

1 6 Ref to bacteria (1) numbers increase/build up/ multiply (1) following demineralisation/corrosion of dentine/penetration of pulp cavity ref: plaque (1) cause infection AW (1) in gum surrounding decayed tooth/teeth (1) with redness/soreness/inflammation/swelling of gum/ pocket of pus (1) max 5
(5 marks)

Question 4

1 | 7 Allow 1 mark for each comparison point of males and females – e.g. females have more stress headaches than males/nearly 2 x many females have headaches caused by foodstuffs than males/headaches caused by dehydration similar numbers for males and females

Stress headaches most common males/females/both genders (1) similar numbers for dehydration cause (24) and foodstuffs (23) when male/females considered together (1)

Allow 1 mark for ideas questioning validity of data e.g. cause is a subjective judgement – may be inaccurate/some headaches may be very recent others long time ago – cause therefore less obvious (1) max 6
Allow 4 comparative and 1 most/least point

(6 marks)

1 | 8 Hangovers/Prolonged travel/hunger max 2

(2 marks)

1 | 9 Ref to migraine being more severe AW (1) often affecting only one side of the head (1) associated with visual problems AW (1) stomach/sickness problems AW (1) may last longer than other headaches (1) max 3

(3 marks)

2 | 0 Ref to pores on skin (1) become blocked (1) by sebum/oil secretion (1) produced by glands (1) in hair follicles (1) darkening caused by melanin/skin pigment (1) allow ref to comedones (1) max 4

(4 marks)