



**General Certificate of Education**

**Health and Social Care**

*8621/8623/8626/8627/8629*

**HC06 Common Diseases and Disorders**

**Mark Scheme**

*2010 examination - January series*

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**GCE Health and Social Care HC06 January 2010 Mark Scheme****1**

- ai) Virus/viral 1 mark
- a ii) Ref to fever AW/chills AW/headaches/muscular aches-pains/cough/sore throat/nasal mucus AW/fatigue AW/breathing difficulty Max 3 3 marks
- a iii) Fungus/Yeast/Candida 1 mark
- a iv) Ref to itching/soreness/burning sensation/vaginal – vulva swelling/smelly discharge/oral sores/redness – inflammation AW Max 2 2 marks
- b) Factor – state of health (1) weak immune system (1) effectiveness reduced AW(1)  
OR Lifestyle choice(s)/or example – alcohol/smoking/poor personal hygiene/poor diet/**unprotected** sex (1) appropriately linked to physical damage to body (1) immune system (1)  
Max 1+2 3 marks
- ci) Any three of: eating infected food – drink/(unprotected) sex/poor hygiene practice or example/droplet inhalation AW/through open wound Max 3 3 marks
- cii) Any two of: good food/good hygiene practice e.g. regular-thorough hand washing/using condoms for sexual activities/avoiding contact with animal faeces/cover open wounds  
Max 2 2 marks
- Total 15 marks

**2**

- ai) Ref to:
- Allergen A most common (either/both years)/Allergen C least common (either/both years)(1)
  - Allergen A increased AW 06 to 07 (1)
  - Allergen B similar numbers 06/07 (1)
  - Allergen C similar numbers 06/07 (1)
  - Allergen D decreases 06/07 (1)
  - Overall more allergies 07 cf 06 (1) Max 4
- Suggestion that:
- C in food rarely eaten (1)
  - A in food more commonly eaten (1)
  - Symptoms A very noticeable (1) may be mild – not reported
  - Awareness of food – avoidance ideas Max 7 7 marks
- a ii) Ref to: food allergen normally harmless causes abnormal response AW (1) B-lymphocytes (1) 'misinformed' (at genetic level) (1) produce antibodies – Ig E immunoglobulins (1) which attach to mast cells (1) and basophils (1) produce histamine (1) release of histamine causes symptoms (1)  
Max 6 6 marks

- b) Any 2 of: pollen/animal dander – feathers – fur/dust mites/mould spores.  
2 marks

Total 15 marks

3

- ai) Ref to Nina having short sight/near objects seen clearly AW (1) but unable to see objects clearly at a distance (1)  
2 marks

- a ii) Ref to Nina’s eyeball being too ‘long’ – increased distance from front to back AW(1) lens – cornea too convex AW (1) causing light from distant objects to be focussed in front of the retina (1) light from near objects will focus on the retina (1)  
Max 3 3 marks

- b) Ref to tinnitus being a sound not caused by an external source AW (1) usually ringing/hissing/buzzing/whistling/roaring sound (1) generated by nerve signals to the brain (1) caused by cell damage (1) blocked Eustachian tube (1)  
Max 3 3 marks

- ci) Flossing is the use of a nylon filament/string AW (1) moved back and forward between teeth (1) to remove food debris AW (1) Not plaque 3 marks

- cii) Ref to: Nina’s flossing removing food reduces bacterial build up (1) less sugars/carbohydrates (1) so reducing plaque formation (1) less acid produced (1) less enamel demineralised (1)  
Max 4 4 marks

Total 15 marks

4

- ai) Ref to localised (1) macular rash (1) 2 marks

- a ii) Ref to generalised rash or raised rash 1 marks

- bi) Ref to the meninges in Rick’s brain (1) which are membranes around the nerve tissue AW (1) the scalp (1) and/or blood vessels (1) max 2 being under tension (1) and/or stretched (1) Not muscles 4 marks

- bii) Any 3 of: cheese/chocolate/caffeine/**stuffy** atmosphere/stress/dehydration/**prolonged** travel/hangover 3 marks

- ci) Any 1 of: infective/bacterial/salmonella 1 mark

- cii) Any 2 of: stomach pains AW /vomiting AW /diarrhoea 2 marks

- ciii) Ref to: bacteria – microbes (1) multiplying – building up numbers to cause symptoms/incubation (1) Allow time for digestion of chicken/absorption of food (1)  
Max 2 2 marks

Total 15 marks

Paper Total 60 marks