



**General Certificate of Education (A-level) Applied
June 2011**

Health and Social Care

HC06

**(Specification
8621/8623/8626/8627/8629)**

Unit 6: Common Diseases and Disorders

Final

Mark Scheme

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Question 1

Question	Part	Sub Part	Marking Guidance	Mark	Comments
1	01		Hazel is likely to have an itchy (head – scalp) (1) possibly worse behind her ears – or on the back of the neck (1) may have tiny red spots/bite marks on the (skin – scalp) (1) visible lice – eggs attached to hairs (1) max 2	2	Soreness – redness needs qualifying Not rash/scabs
1	02		Ref to a parasite as a species of living animal – plant – organism (1) which lives/takes food from/in/on a close relationship with another organism – host (1) which it needs to live – grow – multiply (1) Allow idea that parasite rarely kills host (1) max 3	3	
1	03		Any two of scabies/tapeworm. Allow candidiasis – thrush/ringworm (tinea)/athlete’s foot	2	
1	04		Fungus/fungi	1	
1	05		Hazel is likely to have itching – redness – soreness – burning sensation around her vagina (1) swelling/inflammation of the vagina – vulva (1) yeasty/smelling/white discharge (1) pain when urinating (1) max 3	3	Not rash/white spots Allow ref to throat infection - soreness-white film
1	06		Any two of through food and drink/poor hygiene – or example/through cuts – wounds/unprotected sex/breathed in – droplet infection – respiratory	2	
1	07		Ref to Hazel’s immune system not fully developed AW (1) whereas an adult has developed immunity – had exposure to more infections AW (1) Hazel may not understand good hygiene whereas an adult may take more care AW (1) max 2	2	Ignore weak/strong immune system

Question 2

Question	Part	Sub Part	Marking Guidance	Mark	Comments
2	08		Any three of runny/swollen nose/itchy/sneezing/coughing/wheezing – breathing difficulties/headache/blocked sinus AW/sore throat/watery/sore/red/itchy/swollen eyes	3	Allow increased mucus (1)
2	09		<p>Likely points are: ref to small amount/weak form of feather – pollen allergens/ in solution AW / attached to a disc – tape to the skin OR gently scratched into skin with a needle / on Ray's arm or back / site of each allergen marked / left for short period of time AW / observed for red/itchy – white weal reaction / if occurs then Ray allergic to that allergen(s) if skin normal then he is not allergic.</p> <p>Mark Ranges</p> <p>0 marks No response worthy of credit</p> <p>1-3 marks Probably only 1-3 points made, lacking clarity or detail. Answer vague and superficial. There will be errors in spelling, punctuation and grammar.</p> <p>4-5 marks Likely to make 4 or more appropriate points in some detail. Answers are organised but lack precision. There may be errors in spelling, punctuation and grammar.</p> <p>6-7 marks Answers likely to cover at least five appropriate points, logically and in clear detail showing understanding. Answers are well structured with good spelling, punctuation and grammar throughout</p>	7	Allow appropriate ref to placebo/n.b if placebo reacts not necessarily a retest needed – maybe allergic to patch/disc itself.
2	10		Ref to first exposure to the allergen the person's immune system is sensitised AW (1) B-lymphocytes activated (1) begins to produce specific antibody – immunoglobulin – IgE (1) binds to mast cells/basophils (1) but no histamine released by them (1) subsequent exposure causes mast/basophil cells to release histamine (1) max 5	5	No marks for definition of allergic reaction.

Question 3

Question	Part	Sub Part	Marking Guidance	Mark	Comments
3	11		Hypermetropia/Hyperopia	1	
3	12		Ref to Tracey's <u>eyeball</u> being too short AW front to back (1) cornea is flattened - not curved (1) lens unable to focus image onto retina (1) image falls 'behind' the retina (1) when viewing close objects (1) when viewing distant objects – image can be focussed accurately onto the retina (1) max 4 Tracey unable to see close objects/read clearly AW (1) can see objects far away AW clearly (1) max 5	5	Max 4 for components and 1 for effect
3	13		Cataracts develop in the lenses of the eye (1) which become cloudy AW (1) due to protein fibres changing (1) Allow reference to egg white analogy for these latter 2 points	3	Not: eye goes cloudy
3	14		Tracey's eyesight will become blurred (1) as light rays unable to penetrate through the lens clearly (1) distorts the image on the retina (1)	3	
3	15		Tinnitus is hearing sounds from within the ear itself AW (1) such as ringing – buzzing – whistling – roaring – hissing noises (1) as cochlea hairs/hair cells stimulated – nerve signals to the brain (1) caused by cell damage – blocked Eustachian tube (1) max 3	3	Ignore sensory cells

Question 4

Question	Part	Sub Part	Marking Guidance	Mark	Comments
4	16		There may be more males than females/females may be less willing to report rashes or vice versa/males may be more 'susceptible' to rashes than females max 2	2	Allow – may be different ages/age profiles Maybe hormonal differences linked to age/stage Allow females may be more hygienic AW

4	17	<p>Likely valid points will include the following points of comparison –rashes more common in male students than female students/localised rashes are more common in both female/male students c.f. generalised rashes (in females localised macular rashes are 4x more common) in males similar to females- nearly 3x more common/ males 2x more common localised macular c.f. females/males 2xmore common generalised macular c.f. females (males 3x more common generalised raised c.f. females) localised raised rashes most common both males and females/generalised raised least common in females/ generalised macular and generalised raised equal in males.</p> <p>Allow credit for understanding difference between technical terms.</p> <p>Mark Ranges</p> <p>0 marks No response worthy of credit</p> <p>1-2 marks Probably only 1-2 straightforward- more/less comparison points made, Answers vague and repetitive. There will be errors in spelling, punctuation and grammar.</p> <p>3-4 marks Likely to make 3 or more comparison points, including similarities and most/least. Answers are organised but lack precision. There may be errors in spelling, punctuation and grammar.</p> <p>5 marks Answers likely to cover at least five comparison points including similarities, most/least and numerical manipulation. Answers are accurate and well structured with good spelling, punctuation and grammar throughout.</p>	5	
4	18	<p>Ref to plaque formation/from food debris – bacterial growth/producing acid/causing demineralisation AW/of enamel/into the dentine/and eventually the pulp –nerves and blood vessels max 5 plus/which when becomes infected causes pain (1) max 6</p>	6	
4	19	<p>Infective food poisoning caused by organism – bacteria – virus AW (1) non infective caused by chemical – toxin (1)</p>	2	