



**General Certificate of Secondary Education
June 2012**

Health and Social Care

48203

(Specification 4820)

Unit 3: The Nature of Health and Well-Being

Final

Mark Scheme

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Question 1

Question	Part	Sub Part	Marking Guidance	Mark	Comments
1	a		Ref to a positive definition of health and well-being: as the achievement (1) and maintenance (1) of physical fitness (1) and mental stability (1) (not just mental health).	3	Max 3
1	b		Ref to a negative definition of health and well-being: as the absence of (1) physical illness-disease (1) and mental distress AW (1).	3	Absence of illness/disease = (1 mark) Absence of physical illness/disease = (2 marks) Absence of mental illness/disease = (2 marks) Max 3
1	c		Ref to Samantha needing: using more energy-calories than Wendy (1) therefore Samantha requires more food AW (1) especially carbohydrates-sugars-starches-fats-energy rich foods (1) Allow reverse of first two points if referring to Wendy.	3	Ignore references to other food components e.g. more protein, calcium.
1	d		Proteins (1) fats (1) carbohydrates (1) Allow sugars or starches if not offering carbohydrates	3	

Question 2

Question	Part	Sub Part	Marking Guidance	Mark	Comments
2			<p>Ref to Emily's vaccinations will introduce: weakened/ diluted/ mild forms of -disease organisms - microbes AW (1) or dead forms of disease organisms – microbes AW (1) that she may come in contact with AW –allow examples breathe in- drink-eat (1) NOT if catches disease. (Emily) will make antibodies (1) which are specific to the disease AW (1) so that she won't become ill/suffer AW e.g. becomes immune (1)</p>	5	<p>Ignore artificial-small amounts</p> <p>n.b. last mark must be consequence NOT protect against disease/ignore fight again disease Allow rewording of protect e.g. defend.</p>

Question 3

Question	Part	Sub Part	Marking Guidance	Mark	Comments
3			<p>Ref to Troy using a (peak flow meter) with the scale set at zero AW he will seal his lips around the mouthpiece blow a single breath as hard as possible) moving the pointer-showing result on the scale AW e.g. read the result results indicate speed of air flow AW showing if Troy's airways AW are clear low result/ if speed of air flow is reduced AW e.g. litres/minute ORA it will indicate that he may be asthmatic- has a respiratory problem Allow larger people have larger peak flows. ORA</p>	6	<p>Ignore standing/sitting Ignore fast</p> <p>Max 6</p>

Question 4

Question	Part	Sub Part	Marking Guidance	Mark	Comments
4			Ref to Molly benefitting: physically / being looked after AW by her husband children – allow example/benefitting intellectually /being stimulated- not being bored/benefitting emotionally / feeling good- raising her self-confidence/ self-esteem – self-concept / benefitting socially / from interactions with the family- allow social example such a activities as family or couple P.I.E.S. must be qualified for marks. Allow if in right area even if no score for example	8	Ignore safe/secure/loved Ignore negative interpretations e.g. not socially isolated. Not talk with/to but can allow social mark Max 8

Question 5

Question	Part	Sub Part	Marking Guidance	Mark	Comments
5	a		Ref to haemophilia being:: a genetic-inherited disorder AW (1) caused by a recessive- faulty gene(1) on the X chromosome (1)	3	Ignore mutation Max 3
5	b		Ref to Jason will have problems with blood clotting-takes longer-bleeds more/ lack clotting factors-proteins in the blood/ may have internal bleeding/ around joints –muscles/ symptoms may be mild-moderate-severe	3	NOT needs clotting factor Max 3

Question 6

Question	Part	Sub Part	Marking Guidance	Mark	Comments
6	a		<p>Ref to too much stress causing Freda to have:</p> <p>physical effects such as disturbed sleep eating pattern altered AW raised blood pressure hair falls out fatigue AW</p> <p>emotional effects making her irritable – mood – angry AW may affect her socially little time-patience with friends-family</p> <p>intellectually may lack concentration- get confused AW</p> <p>P.I.E.S. must be qualified for marks</p>	8	Max 8
6	b		<p>Ref to Freda having:</p> <p>increased risk to her physical health – (needs qualifying correctly for the mark) due to toxic/harmful chemicals – carbon monoxide (being-becoming) addicted to nicotine increasing risk of coronary heart disease AW – heart attack AW increased blood pressure possible blocked arteries- causing circulatory problems – atheroma – plaque AW increased chance of stroke, possibly early menopause may develop respiratory problems – lung disease – bronchitis – loss of hairs in airways may get cancer of lung – mouth – throat from tar and other chemicals - carcinogens</p>	7	Max 7

6	c	Ref to: organ damage AW – or example – nasal problems, spots, rashes addiction affecting physical health (needs correct qualification for mark) risk of accident AW when under the influence – victim of crime.	3	Not just organ problems must be organ damage Max 3
6	d	Ref to the risks to Freda being: catching a sexually transmitted infections AW- allow example –Chlamydia, HIV, Gonorrhoea, Herpes through infected semen- transfer of body fluids and unwanted pregnancy	3	Allow STD/sexually transmitted disease

Question 7

Question	Part	Sub Part	Marking Guidance	Mark	Comments
7			<p>Positive points may include: enjoys his job - works from home- good salary- no money worries will make Zac feel good/ raise his self-confidence/ self-esteem likes to run for exercise- (may choose to be alone) - feel effect good as emotional effects Negative points may include: small flat - noisy environment - may make Zac feel down/depressed/ may raise Zac's stress levels/disturbs his sleep AW/causes irritability / physical and emotional effects litter in streets /attracts vermin/ carry disease-causing organisms/ may spread to food preparation surfaces – foods/ increasing the risk of physical illness few friends- family long distance away- living alone- limits Zac's interactions/ affects his social skills/ as social effects Allow positive aspects of having friends and family</p> <p>Candidates can demonstrate the “balancing” effects of positive and negative factors, and/or aggregate positive or negative points for enhanced effects.</p> <p>Mark Ranges 0 marks - No response worthy of credit 1-4 marks - Answers cover 1-4 points mainly statements which are not reasoned, and are vague and/or repetitive. Effects not identified as physical, emotional or social. Answers superficial, lack structure and there will be errors in spelling, punctuation and grammar. 5-8 marks - Answers cover 5-7 points with some reasoning as to how they cause their effects. Some effects identified as physical emotional and/or social. Answers are organised but lack precision. There may be some use of appropriate terminology with some errors in spelling, punctuation and grammar. 9-12 marks - Answers cover at least 8 points in good detail identifying physical, emotional and social aspects as appropriate. Answers are well structured, logical and demonstrate good spelling, punctuation and grammar. There is good use of appropriate terminology</p>	12	Max12