



**General Certificate of Secondary Education
June 2011**

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		Positive definition	1	
1	b		Either the negative definition (1) absence of (physical) illness/disease AW (1) absence of mental distress AW (1) OR Holistic definition (1) combination of – overall AW (1) physical, intellectual, emotional and social factors (1)	3	If negative or holistic missing, then no mark for definition. Allow P.I.E.S

Question 2

Question	Part	Sub Part	Marking Guidance	Mark	Comments
2	a	1	Carbohydrates are important because they supply Darren with energy AW	1	
2	a	2	Fats are important because they store energy/help heat insulation AW/protect Darren's organs	1	Allow for energy
2	a	3	Proteins are important because they are needed to help Darren grow/maintain/repair his body tissues. Allow more technical answer – hormones/enzymes	1	
2	b		Any 3 of: named minerals (Calcium, Iron or others) named vitamins (Vitamin A, C or others) fibre – AW – NSP (Non Starch Polysaccharides), water	3	Allow just vitamins/minerals but not with a named example.
2	c		Ref to Darren will need more food overall AW (1) as his body size increases/grows (1) more protein to make more cells - tissues (1) need more energy (1) from carbohydrates/fats intake (1) once adult activity level will determine how much AW (1) max 4	4	

Question 3

Question	Part	Sub Part	Marking Guidance	Mark	Comments
3			Reference to Padma’s intellectual health and well-being (1) being improved/maintained as she learns new skills/gains more knowledge (1) her emotional health and well-being (1) being improved/maintained in terms of her self-esteem/self-concept (1) self-confidence (1) and feel good factor/sense of achievement – proud - valued(1) her social health and well-being (1)improved/maintained social/communication skills (1) through many/varied interactions AW (1) max 7	7	Ignore any negative effect Ignore physical effects i.e. 5 marks must be qualified in the correct area but reasons may not score. Not: “socialising” for social effect but allow for interaction mark in work context. Ignore makes friends.

Question 4

Question	Part	Sub Part	Marking Guidance	Mark	Comments
4	a		Ref to peak flow meter scale set at zero AW (1) Lou seals lips around the mouthpiece (1) ref to disposable – cardboard – tube clean mouthpiece (1) produces a single (1) hard as possible exhalation (1) reads result from scale AW (1)	4	
4	b		results indicate speed of air flow (1) indicating if Lou’s airways are clear AW (1) if asthmatic/respiratory problem (1) speed of air flow reduced (1) max 2	2	Not lung capacity - volume

Question 5

Question	Part	Sub Part	Marking Guidance	Mark	Comments
5	a		Ref to Down's syndrome being a genetic/inherited condition AW (1) caused by an additional chromosome (1) number 21(1) max 2	2	Not recessive gene - allele
5	b		Ref to Rachel having distinct physical appearance AW (1) eyes- almond shaped/slanting upwards/small ears/flat back of head/protruding tongue/small mouth/flattened nose bridge/extra eyelid fold/stubby hands – feet/reduced height AW/small chin/ref to strength AW. will have some learning disability AW may develop slower socially/overfriendly AW/shortened life span AW (1) max 5	5	

Question 6

Question	Part	Sub Part	Marking Guidance	Mark	Comments
6	a		<p>Ref to possible effects on Olivia of continuing to drink 30 – 40 units of alcohol each week during adulthood could be increased risk of: liver disease AW, brain cell damage causing blurred vision, slurred speech, slower reaction times, impaired memory, confusion/disorientation, high blood pressure, strokes, addiction, accident if drunk/depends how alcohol consumed/depression violence/victim of crime – as physical effects drinking may affect relationships – as a social effect Mark Ranges 0 marks No response worthy of credit</p> <p>1-3 marks Only 1-5 effects covered, probably all physical effects, not reasoned and frequently vague. Answers therefore superficial, lacking structure and may be repetitive. There will be errors in spelling, punctuation and grammar. For 3 marks must cover 3 different effects.</p> <p>4-6 marks Covers at least 6-9 different effects, probably mainly physical ones with some reasoning. For 6 marks must include either a non-physical effect or relate degree of impact of the consumption e.g. +9 to 19 units per week, increased addiction, short/long term effects differentiated. Answers are organised but lack precision. There may be errors in spelling punctuation and grammar.</p> <p>7-9 marks Answers cover at least 10 different effects all well reasoned including either the social effect with physical effects or two or more distinct degree of impact points. For 9 marks answers must include at least 8 different effects. Answers are well structured and demonstrate good spelling, punctuation and grammar throughout.</p>	9	If listing points without reasoning – maximum 5 marks
6	b	i	<p>Ref to occasionally misusing illegal drugs may affect Olivia through increased risk of physical effects (1) addiction AW (1) loss of consciousness (1) body organ damage or example (1) overdose (1) hallucination (1) as emotional effect (1) Allow 1 example of a specific risk, e.g. HIV from shared needles/paranoia/skin rashes - bad skin, etc (1) max 5</p>	5	Physical/emotional marks must be qualified

6	b	ii	Ref to Olivia suffering too much stress causing (tension) headaches (1) muscle pains (1) feeling fatigued - tired AW (1) disturbed sleep (1) loss of appetite (1) eating pattern disturbed AW (1) high blood pressure (1) as physical effects (1) hair loss (1) feeling anxious AW (1) irritable (1) as emotional effects (1) lack concentration AW (1) as intellectual effect max 4	4	Physical/intellectual/emotional marks must be qualified
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Question 7

Question	Part	Sub Part	Marking Guidance	Mark	Comments
7	a		Ref to: risk of unwanted pregnancy AW (1) increased risk of STIs - sexually transmitted diseases (1) allow two examples max – Chlamydia/HIV/Gonorrhoea/Herpes (2) social effect (1) may affect relationships/way others treat the person (1) max 4	4	
7	b		Ref to: risk of coronary heart disease increased AW/heart attacks (1) weight gain/obesity (1) as energy from food not used up (1) blood cholesterol may rise (1) high blood pressure (1) loss of mobility/flexibility AW (1) reduced strength (1) reduced stamina (1) max 5	5	Ignore muscle tone

Question 8

Question	Part	Sub Part	Marking Guidance	Mark	Comments
8			<p>Ref to Raymond suffering social isolation, losing social skills – as social effects losing self esteem, losing self-confidence, feeling down, depressed, lonely – as emotional effects may not feed himself properly, may not keep himself clean AW –as physical effects may be bored/not stimulated – as intellectual effect</p> <p>Mark Ranges 0 marks No response worthy of credit e.g. restates given information only.</p> <p>1-3 marks Only 1-3 points made with statements not reasoned and often vague. For 3 marks must make 3 distinct points. Answers are superficial, lack structure and may be repetitive. There will be errors in spelling, punctuation and grammar.</p> <p>4-6 marks Makes 4 – 6 points with some reasoned. For 6 marks must make 6 points and must include one or more effects identified accurately in the P.I.E.S areas.</p> <p>7-9 marks Answers cover 7 or more points in good detail. For 9 marks must reason effects clearly and identify them in the P.I.E.S areas. Answers are well structured and demonstrate good spelling, punctuation and grammar throughout.</p>	9	<p>Ignore possible positive effects P.I.E.S marks must be qualified Allow 'lonely' as emotional or social – but only once</p> <p>If point is made but not reasoned or P.I.E.S-identified, maximum 5 marks</p>