

Additional Applied Science A

General Certificate of Secondary Education

Unit **A324/01**: Life Care

Mark Scheme for June 2011

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All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

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1. Annotations

Used in the detailed Mark Scheme:

Annotation	Meaning
/	alternative and acceptable answers for the same marking point
(1)	separates marking points
not/reject	answers which are not worthy of credit
ignore	statements which are irrelevant - applies to neutral answers
allow/accept	answers that can be accepted
(words)	words which are not essential to gain credit
words	underlined words must be present in answer to score a mark
ecf	error carried forward
AW/owtte	alternative wording
ORA	or reverse argument

Question			Expected Answers	Marks	Rationale
1				4	LHS 3 lines correct = 2 marks. 1 or 2 lines correct = 1 mark RHS 3 lines correct = 2 marks. 1 or 2 lines correct = 1 mark
Total				4	

Question			Expected Answers	Marks	Rationale												
2			<table border="1"> <tr><td>to discuss football</td><td></td></tr> <tr><td>to discuss injury</td><td>√</td></tr> <tr><td>to find out about</td><td></td></tr> <tr><td>to build up trusting</td><td>√</td></tr> <tr><td>to discuss progress</td><td>√</td></tr> <tr><td>to decide who is the team captain</td><td></td></tr> </table>	to discuss football		to discuss injury	√	to find out about		to build up trusting	√	to discuss progress	√	to decide who is the team captain		2	3 correct =2 marks 2 correct = 1 mark
to discuss football																	
to discuss injury	√																
to find out about																	
to build up trusting	√																
to discuss progress	√																
to decide who is the team captain																	
Total				2													

Question			Expected Answers	Marks	Rationale
3	a	i	82	1	
	b		sweating (1) vasodilation owtte (1) detail (1)	3	allow skin reddens as alternative to vasodilation or detail of vasodilation reject any reference to blood flowing on the surface of the skin or blood vessels moving ignore references to dehydration ignore references to hair movement/muscles relaxing/heart rate
Total				4	

Question		Expected Answers	Marks	Rationale
4	a	correctly plotted points (2) line through the points (1)	3	deduct 1 mark for each incorrectly plotted point up to a maximum of 2 marks plots +/- half square line to be ruled and clean and clear reject more than one attempt at best line line can be point to point or best fit line (must include 142 point)
	b	(i) 67 to 69 beats per minute	1	allow range but must be within 67 - 69
		(ii) fright/fear/anxiety/adrenalin rush owtte (1)	1	accept she went on a ride. ignore any reference to exercise or excitement
	c	shock/blood loss/hypothermia/low blood pressure/heart condition (1)	1	ignore any reasons linked to slow rather than weak pulse rate
		Total	6	

Question			Expected Answers	Marks	Rationale														
5	a	i	A femur (1) B tibia (1)	2	allow thighbone for A reject shinbone/fibula/fibia for B														
		ii	ligament (1) tendon (1) muscle (1)	3	allow in any order allow synovial fluid / membrane / cartilage														
	b	i	2 from: treat/assess muscular /skeletal injury (1) involves exercise (1) to enable return to full mobility (1)	2	allow massage/manipulation for treat an appreciation that this will help rehabilitate the patient owtte for 1 mark														
		ii	suitable name (1) appropriate role (1) suitable name (1) appropriate role (1)	4	not physiotherapist or fitness coach but any suitable health care worker and a description of their role such as GP diagnose illness														
	c		<table border="1"> <tr> <td>to alert staff to allergies</td> <td>√</td> </tr> <tr> <td>to inform staff of medication</td> <td>√</td> </tr> <tr> <td>to make sure fed on time</td> <td></td> </tr> <tr> <td>to warn staff he does not like</td> <td></td> </tr> <tr> <td>to help staff monitor his progress</td> <td>√</td> </tr> <tr> <td>to find out which TV channels Mark likes to watch</td> <td></td> </tr> <tr> <td>to ensure Mark gets regular visitors</td> <td></td> </tr> </table>	to alert staff to allergies	√	to inform staff of medication	√	to make sure fed on time		to warn staff he does not like		to help staff monitor his progress	√	to find out which TV channels Mark likes to watch		to ensure Mark gets regular visitors		3	if more than three boxes are ticked then each incorrect box loses one mark from the total for the question. The candidate cannot score less than zero.
to alert staff to allergies	√																		
to inform staff of medication	√																		
to make sure fed on time																			
to warn staff he does not like																			
to help staff monitor his progress	√																		
to find out which TV channels Mark likes to watch																			
to ensure Mark gets regular visitors																			
			Total	14															

Question		Expected Answers	Marks	Rationale					
6	a	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding: 2px 10px;">B</td> <td style="padding: 2px 10px;">D</td> <td style="padding: 2px 10px;">A</td> <td style="padding: 2px 10px;">C</td> <td style="padding: 2px 10px;">E</td> </tr> </table>	B	D	A	C	E	3	B first = 1 mark E last = 1 mark DAC = 1 mark
B	D	A	C	E					
	b	(i)	x-ray	1	accept named scan				
		(ii)	no need to operate / cut open patient (1) reduces risk of infection (1)	2	allow quicker allow no scarring ignore references to safer/cheaper/side effects				
		Total		6					
		Paper Total		36					

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