

Additional Applied Science A

General Certificate of Secondary Education

Unit **A324/02**: Life Care (Higher Tier)

Mark Scheme for June 2011

OCR (Oxford Cambridge and RSA) is a leading UK awarding body, providing a wide range of qualifications to meet the needs of pupils of all ages and abilities. OCR qualifications include AS/A Levels, Diplomas, GCSEs, OCR Nationals, Functional Skills, Key Skills, Entry Level qualifications, NVQs and vocational qualifications in areas such as IT, business, languages, teaching/training, administration and secretarial skills.

It is also responsible for developing new specifications to meet national requirements and the needs of students and teachers. OCR is a not-for-profit organisation; any surplus made is invested back into the establishment to help towards the development of qualifications and support which keep pace with the changing needs of today's society.

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by Examiners. It does not indicate the details of the discussions which took place at an Examiners' meeting before marking commenced.

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.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

© OCR 2011

Any enquiries about publications should be addressed to:

OCR Publications
PO Box 5050
Annesley
NOTTINGHAM
NG15 0DL

Telephone: 0870 770 6622
Facsimile: 01223 552610
E-mail: publications@ocr.org.uk

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	a		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
	b		any suitable example (1) relevant detail about example chosen (1)	2	allow any sensible example such as care for your heart, half an hour of aerobic exercise a day, change 4 life campaigns allow detail about how campaign carried out or aims of campaign
			Total	5	
Question			Expected Answers	Marks	Rationale
2	a	i	A femur (1) B tibia (1)	2	allow thighbone for A reject shinbone/fibula/fibia for B
		ii	ligament joins bone to bone(1) tendon joins bone to muscle (1)	2	allow holding joints together for ligament
	b	i	2 from: develop a programme/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	builds up trust/confidence/good relationship (1) enables progress to be monitored/programme adjusted in light of progress/quicker identification of problem(1)	2	
			Total	8	

Question		Expected Answers	Marks	Rationale					
3	a	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 20%;">B</td> <td style="width: 20%;">D</td> <td style="width: 20%;">A</td> <td style="width: 20%;">C</td> <td style="width: 20%;">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)	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				
		(ii)		4	LHS 4 correct = 3 marks, 3 correct = 2 marks, 2 correct = 1 mark RHS all correct = 1 mark only allow one line from each box				
Total			9						

Question			Expected Answers	Marks	Rationale
4	a	(i)	suitable scale (1) correctly plotted points (1)	2	scale: if value for origin not 0 must be correctly labelled. scale not suitable if less than half the graph space used.
		(ii)	line through the points (1)	1	line to be ruled and clean and clear. accept line of best fit or point to point
	b	(i)	375	1	allow extrapolation from their graph
		(ii)	shock/heart disorder / blood loss /hypothermia(1)	1	allow any valid reason for low blood pressure
		(iii)	any two from reference to side effects (1) reference to person taking other medication(1) cost/reference to budgets(1) different underlying causes(1) different people react in different ways(1)	2	allow may be allergic for side effect
Total				7	

Question		Expected Answers	Marks	Rationale	
5	a	any three from: makes free health care available to all citizens (1) can provide specialist care not available locally (1) monitors national trends (1) plans suitable health care(1) provides resources (1) allocates resources where available (1) public health campaigns(1)	3	allow vaccination programme/screening/NHS Direct for plans suitable health care mark resources include hospitals/ practitioners such as dentists, doctors, nurses, dieticians etc	
	b	i	any two from: to check they are likely to survive the test (1) all treatments carry a risk (1) so the patient can give their informed consent(1)	2	looking for an appreciation that any surgical procedure is risky and that it should be carried out once an assessment has been made, weighing up the benefits and risks to the patient, so they do not undergo unnecessary procedures benefits outweigh risk = 2
		ii	2 marks from: too late (1) there are different ways to treat any one disorder/their cancer may not be suitable for this treatment/may be allergic (1) balance resources/may not be able to afford some drugs (1)	2	looking for the idea that any medical condition can have any number of possible treatments and the treatment you end up with is dependent on cost as well as medical implications. It may not be the right treatment for that situation.
		Total	7		
		Paper Total	36		

OCR (Oxford Cambridge and RSA Examinations)
1 Hills Road
Cambridge
CB1 2EU

OCR Customer Contact Centre

14 – 19 Qualifications (General)

Telephone: 01223 553998

Facsimile: 01223 552627

Email: general.qualifications@ocr.org.uk

www.ocr.org.uk

For staff training purposes and as part of our quality assurance programme your call may be recorded or monitored

Oxford Cambridge and RSA Examinations
is a Company Limited by Guarantee
Registered in England
Registered Office; 1 Hills Road, Cambridge, CB1 2EU
Registered Company Number: 3484466
OCR is an exempt Charity



OCR (Oxford Cambridge and RSA Examinations)
Head office
Telephone: 01223 552552
Facsimile: 01223 552553