

General Certificate of Secondary Education

Science Double Award Modular 3468

Biology A 3413

Module 02: Maintenance of Life

Module Test Answer Keys

March 2007 examination series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

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Question No.	KEY
One	1 – cell wall
	2 – permanent vacuole
	3 – cytoplasm
	4 – nucleus
	1
Two	1 - nose 2 - skin
	3 - ear
	4 – eye
Three	1 – produces sweat
	2 - where urine is stored
	3 – where urea is produced
	4 – gets rid of carbon dioxide
Four	1 – nitrate
	2 – the force of gravity
	3 – light
	4 – hormone
Five	1 – reduces water loss from the stem
Tive	2 – helps to strengthen the stem
	3 – transports sugars to the growing regions
	4 – transports water up the stem
Six	ciliary muscles
	suspensory ligaments
~	
Seven	increased reaction time
	lack of self-control
Fight	
Eight	8.1 – A, 8.2 – C, 8.3 – B, 8.4 – B
Nine	9.1 - C, 9.2 - D, 9.3 - B, 9.4 - D
	л. с, л. – D, л. – D, л. – D
Ten	10.1 – A, 10.2 – B, 10.3 – D, 10.4 – A
- •••	1011 12, 1012 2, 1010 2, 1011 11

Maintenance of Life : Foundation Tier

Question No.	KEY
One	1 – reduces water loss from the stem
	2 – helps to strengthen the stem
	3 – transports sugars to the growing regions
	4 – transports water up the stem
T	
Two	1 - unequal distribution of hormones in the stem 2 - soil has a very high concentration of ions
	3 - soil deficient in nitrate ions
	4 – soil deficient in potassium ions
Three	increased reaction time
	lack of self-control
Four	energy released by respiration
	large surface area of root hairs
Five	5.1 – A, 5.2 – C, 5.3 – B, 5.4 – B
Six	6.1 - C, 6.2 - D, 6.3 - B, 6.4 - D
51X	0.1 - C, 0.2 - D, 0.3 - B, 0.4 - D
Seven	7.1 – A, 7.2 – B, 7.3 – D, 7.4 – A
Seven	
Eight	8.1 – B, 8.2 – D, 8.3 – C, 8.4 – D
Nine	9.1 - C, 9.2 - A, 9.3 - A, 9.4 - D
Ten	10.1 – A, 10.2 – C, 10.3 – D, 10.4 – A

Maintenance of Life : Higher Tier