



ASSESSMENT and  
QUALIFICATIONS  
ALLIANCE

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Mark scheme  
November 2003

**GCSE**

**Science (Modular)  
Double Award and Biology**

**Module 01**

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**Humans as Organisms: Foundation Tier**

Question	Key
One	1 – nucleus 2 – cytoplasm 3 – cell membrane 4 – protein coat
Two	1 – protects the lungs 2 – divides to form many bronchioles 3 – separates the thorax from the abdomen 4 – where carbon dioxide diffuses from blood
Three	1 – toxin 2 – nucleus 3 – cell wall 4 – living cell
Four	1 – plasma 2 – red blood cell 3 – platelet 4 – white blood cell
Five	1 – an artery carrying oxygenated blood 2 – carries blood from the lungs to the heart 3 – prevents backflow of blood 4 – receives blood returning from the arms
Six	carbon dioxide water
Seven	keeping cooked food covered wrapping soiled nappies securely before placing in a dustbin
Eight	8.1 – B, 8.2 – C, 8.3 – A, 8.4 – C
Nine	9.1 – A, 9.2 – C, 9.3 – D, 9.4 – A
Ten	10.1 – A, 10.2 – C, 10.3 – A, 10.4 – D

## Humans as Organisms: Higher Tier

Question	Key
One	1 – an artery carrying oxygenated blood 2 – carries blood from the lungs to the heart 3 – prevents backflow of blood 4 – receives blood returning from the arms
Two	1 – moves down to reduce volume of the thorax 2 – moves down to lower pressure in the thorax 3 – has a moist lining for gas exchange 4 – contracts to pull the ribs upwards
Three	keeping cooked food covered wrapping soiled nappies securely before placing in a dustbin
Four	they are present in the cytoplasm they release energy in respiration
Five	5.1 – B, 5.2 – C, 5.3 – A, 5.4 – C
Six	6.1 – A, 6.2 – C, 6.3 – D, 6.4 – A
Seven	7.1 – A, 7.2 – C, 7.3 – A, 7.4 – D
Eight	8.1 – A, 8.2 – C, 8.3 – B, 8.4 – C
Nine	9.1 – C, 9.2 – B, 9.3 – D, 9.4 – D
Ten	10.1 – D, 10.2 – C, 10.3 – C, 10.4 – D