



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Mark scheme
June 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 – cell membrane 3 – cell wall 4 – cytoplasm
Two	1 – artery 2 – atrium 3 – valve 4 – ventricle
Three	1 – controls movement of water into the cell 2 – controls the activities of the cell 3 – where most chemical reactions occur 4 – moves mucus
Four	1 – bronchus 2 – rib cage 3 – alveolus 4 – diaphragm
Five	1 – lipase 2 – protease 3 – bile 4 – hydrochloric acid
Six	have no nucleus help blood to clot
Seven	antibodies antitoxins
Eight	8.1 – D, 8.2 – C, 8.3 – B, 8.4 – D
Nine	9.1 – A, 9.2 – D, 9.3 – D, 9.4 – A
Ten	10.1 – C, 10.2 – B, 10.3 – B, 10.4 – A

Humans as Organisms: Higher Tier

Question	Key
One	1 – lipase 2 – protease 3 – bile 4 – hydrochloric acid
Two	1 – prevents backflow of oxygenated blood 2 – raises the pressure of blood 3 – opens to allow deoxygenated blood to pass 4 – contains deoxygenated blood from the head
Three	antibodies antitoxins
Four	they are found in the cytoplasm they release energy during respiration
Five	5.1 – D, 5.2 – C, 5.3 – B, 5.4 – D
Six	6.1 – A, 6.2 – D, 6.3 – D, 6.4 – A
Seven	7.1 – C, 7.2 – B, 7.3 – B, 7.4 – A
Eight	8.1 – C, 8.2 – A, 8.3 – B, 8.4 – D
Nine	9.1 – C, 9.2 – A, 9.3 – C, 9.4 – C
Ten	10.1 – D, 10.2 – C, 10.3, – C, 10.4 – C