



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Mark scheme

March 2006

GCSE

Science: (Modular)
Chemistry

Module 21

Copyright © 2006 AQA and its licensors. All rights reserved.

Aqueous and Organic Chemistry: Foundation Tier

Question No.	KEY
One	1 – evaporates 2 – condenses 3 – filters 4 – dissolves
Two	1 – catalysts 2 – sugar 3 – ethanol 4 – air
Three	1 – strong alkali 2 – strong acid 3 – weak alkali 4 – weak acid
Four	1 – nitrate ions (NO_3^-) 2 – sodium ions (Na^+) 3 – calcium ions (Ca^{2+}) 4 – hydroxide ions (OH^-)
Five	1 – chlorine 2 – nitric acid 3 – magnesium carbonate 4 – zinc sulphate
Six	Q S
Seven	some of the hardness is removed from Sample M when it is boiled when soap solution is first added to Sample K, a scum will form
Eight	8.1 – B, 8.2 – D, 8.3 – C, 8.4 – B
Nine	9.1 – C, 9.2 – A, 9.3 – B, 9.4 – A
Ten	10.1 – B, 10.2 – B, 10.3 – C, 10.4 – B

Aqueous and Organic Chemistry: Higher Tier

Question No.	KEY
One	1 – chlorine 2 – nitric acid 3 – magnesium carbonate 4 – zinc sulphate
Two	1 – chloroethene 2 – carbon dioxide 3 – hydrogen chloride 4 – hydrogen cyanide
Three	some of the hardness is removed from Sample M when it is boiled when soap solution is first added to Sample K, a scum will form
Four	K M
Five	5.1 – B, 5.2 – D, 5.3 – C, 5.4 – B
Six	6.1 – C, 6.2 – A, 6.3 – B, 6.4 – A
Seven	7.1 – B, 7.2 – B, 7.3 – C, 7.4 – B
Eight	8.1 – C, 8.2 – B, 8.3 – D, 8.4 – B
Nine	9.1 – B, 9.2 – D, 9.3 – A, 9.4 – D
Ten	10.1 – C, 10.2 – B, 10.3 – A, 10.4 – B