

**GCSE**

**Chemistry (Modular)**

**Module 21**

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**Aqueous and Organic Chemistry: Foundation Tier**

Question No.	KEY
One	1 – lather 2 – soap 3 – scum 4 – scale
Two	1 – ammonium nitrate 2 – calcium sulphate 3 – ethanol 4 – carbon monoxide
Three	1 – H <sup>+</sup> ions 2 – H <sup>+</sup> (aq) ions 3 – OH <sup>-</sup> (aq) ions 4 – Ca <sup>2+</sup> ions
Four	1 – sulphuric acid solution 2 – ammonia solution 3 – sodium hydroxide solution 4 – ethanoic acid solution
Five	1 – Q 2 – R 3 – T 4 – S
Six	one of the products when wood burns is water (vapour) wood contains carbon compounds
Seven	drinking hard water can reduce heart illnesses hard water can be softened in an ion exchange column
Eight	8.1 – B, 8.2 – A, 8.3 – A, 8.4 – A
Nine	9.1 – C, 9.2 – B, 9.3 – A, 9.4 – C
Ten	10.1 – D, 10.2 – C, 10.3 – D, 10.4 – B

**Aqueous and Organic Chemistry: Higher Tier**

Question No.	KEY
One	1 – Q 2 – R 3 – T 4 – S
Two	1 – poly(ethene) 2 – polyvinylchloride 3 – melamine 4 – ethyl ethanoate
Three	drinking hard water can reduce heart illnesses hard water can be softened in an ion exchange column
Four	isomer M has stronger forces between molecules isomers M and N have the same chemical formula
Five	5.1 – B, 5.2 – A, 5.3 – A, 5.4 – A
Six	6.1 – C, 6.2 – B, 6.3 – A, 6.4 – C
Seven	7.1 – D, 7.2 – C, 7.3 – D, 7.4 – B
Eight	8.1 – D, 8.2 – D, 8.3 – B, 8.4 – B
Nine	9.1 – C, 9.2 – A, 9.3 – C, 9.4 – A
Ten	10.1 – C, 10.2 – C, 10.3 – C, 10.4 – B