S3E 2022 WA2 Answers

Section A [5 marks]

1	2	3	4	5
A	D	А	С	В

Section B [20 marks]

B1ai	sodium sulfate	1
B1aii	graphite	
B1aiii	sulfur dioxide & sodium sulfate	1
B1aiv	dry ice	1
B1av	graphite	1
B1avi	dry ice – CO ₂	
	sulfur dioxide – SO ₂	
	sodium sulfate – Na ₂ SO ₄	
	Any one for 1 mark	1
B1b	H H H H H H H H H H H H H H H H H H H H	2
	1 mark for correct number of atoms.	
B2ai	Using a separating funnel / distillation	
B2aii	Filtration	1
B2aiii	Crystallisation	1
B2bi	56°C	1
	No marks awarded if unit is missing	
B2DII	thermometer fractionating column mixture of acetone and ethanol heat	1

