2024 - Section 1

Question	Area of course	Question type	Grade A
1	Rates of reaction	processing information (using calculations and units)	
2	Periodic Table and atoms	applying knowledge to new situations, interpreting, solving problems	
3	Periodic Table and atoms	applying knowledge to new situations, interpreting, solving problems	
4	Covalent bonding	drawing conclusions and giving explanations	1
5	Non-specific	making predictions and generalisations	
6	pH	applying knowledge to new situations, interpreting, solving problems	
7	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	
8	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	1
9	pH	applying knowledge to new situations, interpreting, solving problems	1
10	Alkanes	knowledge and understanding - making statements	
11	Non-specific	making predictions and generalisations	
12	Systematic carbon chemistry	applying knowledge to new situations, interpreting, solving problems	
13	Systematic carbon chemistry	applying knowledge to new situations, interpreting, solving problems	
14	Systematic carbon chemistry	applying knowledge to new situations, interpreting, solving problems	
15	Non-specific	drawing conclusions and giving explanations	
16	Energy from fuels	applying knowledge to new situations, interpreting, solving problems	
17	Energy from fuels	planning or designing experiments	
18	Metallic bonding	applying knowledge to new situations, interpreting, solving problems	
19	Reactions of metals	applying knowledge to new situations, interpreting, solving problems	
20	Redox	applying knowledge to new situations, interpreting, solving problems	
21	Commercial production of fertilisers	knowledge and understanding - making statements	
22	Commercial production of fertilisers	applying knowledge to new situations, interpreting, solving problems	
23	Haber and Ostwald processes	knowledge and understanding - making statements	
24	Nuclear equations	processing information (using calculations and units)	
25	Analytical methods	drawing conclusions and giving explanations	

2024 – Section 2

Question	Area of course	Question type	Grade A
1(a)(i)	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	
1(a)(ii)	Rates of reaction	knowledge and understanding - making statements	
1(a)(iii)A	General practical techniques	applying knowledge to new situations, interpreting, solving problems	1
1(a)(iii)B	Rates of reaction	applying knowledge to new situations, interpreting, solving problems	1
1(a)(iii)C	Rates of reaction	making predictions and generalisations	
1(b)(i)	Analytical methods	applying knowledge to new situations, interpreting, solving problems	
1(b)(ii)	Energy from fuels	knowledge and understanding - making statements	
2(a)(i)	Covalent bonding	applying knowledge to new situations, interpreting, solving problems	
2(a)(ii)	Covalent bonding	applying knowledge to new situations, interpreting, solving problems	
2(b)	Haber and Ostwald processes	knowledge and understanding - making statements	
2(c)	Reporting experimental work	presenting information appropriately in a variety of forms	
2(d)	Non-specific	suggesting improvements to experimental procedures	
3(a)	Non-specific	selecting information	
3(b)	Non-specific	selecting information/presenting information appropriately in a variety of forms	
3(c)	Calculations involving the mole and balanced equations	drawing conclusions and giving explanations	
3(d)	Systematic carbon chemistry	knowledge and understanding - making statements	
3(e)	Covalent bonding	knowledge and understanding- descriptions and explanations	1
3(f)	Non-specific	processing information (using calculations and units)	
4(a)	Systematic carbon chemistry	knowledge and understanding - making statements	
4(b)(i)	Alcohols	making predictions and generalisations	
4(b)(ii)	Alcohols	drawing conclusions and giving explanations	
4(c)(i)	Carboxylic acids	knowledge and understanding - making statements	
4(c)(ii)	Carboxylic acids	applying knowledge to new situations, interpreting, solving problems	1
4(c)(iii)	Chemical formulae	applying knowledge to new situations, interpreting, solving problems	1
5	Periodic Table and atoms	knowledge and understanding- descriptions and explanations	2

Question	Area of course	Question type	Grade A
6(a)	Metallic bonding	knowledge and understanding - making statements	
6(b)	Extraction of metals	applying knowledge to new situations, interpreting, solving problems	
6(c)(i)	Electrochemical cells	drawing conclusions and giving explanations	1
6(c)(ii)	Covalent bonding	applying knowledge to new situations, interpreting, solving problems	
6(d)(i)	Electrochemical cells	applying knowledge to new situations, interpreting, solving problems	
6(d)(ii)	Electrochemical cells	applying knowledge to new situations, interpreting, solving problems	
7(a)	Non-specific	selecting information	
7(b)	Chemical formulae	applying knowledge to new situations, interpreting, solving problems	1
7(c)	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	1
7(d)	Non-specific	processing information (using calculations and units)	
8(a)(i)	Neutralisation reactions	applying knowledge to new situations, interpreting, solving problems	
8(a)(ii)	General practical techniques	applying knowledge to new situations, interpreting, solving problems	1
8(b)(i)	Common chemical apparatus	applying knowledge to new situations, interpreting, solving problems	
8(b)(ii)	Reporting experimental work	processing information (using calculations and units)	
8(b)(iii)	Neutralisation reactions	applying knowledge to new situations, interpreting, solving problems	2
8(b)(iv)	Analytical methods	drawing conclusions and giving explanations	
9(a)(i)	General practical techniques	applying knowledge to new situations, interpreting, solving problems	
9(a)(ii)	Neutralisation reactions	knowledge and understanding - making statements	
9(a)(iii)	pH	knowledge and understanding - making statements	
9(a)(iv)	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	
9(b)	Neutralisation reactions used to prepare soluble salts	applying knowledge to new situations, interpreting, solving problems	
9(c)	Reporting experimental work	suggesting improvements to experimental procedures	
9(d)	Percentage composition	applying knowledge to new situations, interpreting, solving problems	

Question	Area of course	Question type	Grade A
10(a)	Systematic carbon chemistry	knowledge and understanding - making statements	
10(b)(i)	Non-specific	processing information (using calculations and units)	1
10(b)(ii)	Non-specific	processing information (using calculations and units)	
10(c)(i)	Alkanes	applying knowledge to new situations, interpreting, solving problems	1
10(c)(ii)	Cycloalkanes	applying knowledge to new situations, interpreting, solving problems	
10(d)(i)A	Chemical formulae	drawing conclusions and giving explanations	
10(d)(i)B	Alkenes	knowledge and understanding - making statements	
10(d)(ii)A	Addition polymerisation	applying knowledge to new situations, interpreting, solving problems	
10(d)(ii)B	Representation of the structure of monomers and polymers	applying knowledge to new situations, interpreting, solving problems	1
11	Radiation/Nuclear equations/Half-life	knowledge and understanding- descriptions and explanations	2