

2024 – Section 1

Question	Area of Course	Question Type	Grade A
1	Atomic orbitals, electronic configurations and the periodic table	applying knowledge to new situations, interpreting, solving problems	
2	Transition metals	applying knowledge to new situations, interpreting, solving problems	
3	Transition metals	applying knowledge to new situations, interpreting, solving problems	
4	Transition metals	processing information (using calculations significant figures and units, where appropriate)	1
5	Transition metals	applying knowledge to new situations, interpreting, solving problems	
6	Atomic orbitals, electronic configurations and the periodic table	applying knowledge to new situations, interpreting, solving problems	1
7	Chemical equilibrium	applying knowledge to new situations, interpreting, solving problems	
8	Chemical equilibrium	applying knowledge to new situations, interpreting, solving problems	
9	Chemical equilibrium	processing information (using calculations significant figures and units, where appropriate)	
10	Chemical equilibrium	applying knowledge to new situations, interpreting, solving problems	
11	Reaction feasibility	applying knowledge to new situations, interpreting, solving problems	
12	Reaction feasibility	applying knowledge to new situations, interpreting, solving problems	
13	Kinetics	processing information (using calculations significant figures and units, where appropriate)	
14	Synthesis	applying knowledge to new situations, interpreting, solving problems	
15	Synthesis	applying knowledge to new situations, interpreting, solving problems	
16	Synthesis	applying knowledge to new situations, interpreting, solving problems	
17	Synthesis	applying knowledge to new situations, interpreting, solving problems	
18	Synthesis	processing information (using calculations significant figures and units, where appropriate)	
19	Synthesis	applying knowledge to new situations, interpreting, solving problems	
20	Stereo chemistry	applying knowledge to new situations, interpreting, solving problems	
21	Stereo chemistry	applying knowledge to new situations, interpreting, solving problems	
22	Experimental determination of structure	applying knowledge to new situations, interpreting, solving problems	
23	Experimental determination of structure	applying knowledge to new situations, interpreting, solving problems	
24	Experimental determination of structure	knowledge and understanding - making statements	
25	Pharmaceutical chemistry	applying knowledge to new situations, interpreting, solving problems	

2024 – Section 2

Question	Area of Course	Question Type	Grade A
1(a)(i)	Kinetics	applying knowledge to new situations, interpreting, solving problems	
1(a)(ii)	Kinetics	applying knowledge to new situations, interpreting, solving problems	
1(a)(iii)	Kinetics	drawing valid conclusions and giving explanations supported by evidence/justification	
1(b)(i)	Stereo chemistry	applying knowledge to new situations, interpreting, solving problems	
1(b)(ii)	Stereo chemistry	knowledge and understanding - making statements	
2(a)(i)	Practical skills and techniques	planning or designing experiments	
2(a)(ii)	Practical skills and techniques	knowledge and understanding - making statements	
2(b)	Stoichiometric calculations	processing information (using calculations significant figures and units, where appropriate)	
2(c)(i)	Pharmaceutical chemistry	knowledge and understanding - making statements	
2(c)(ii)	Stoichiometric calculations	applying knowledge to new situations, interpreting, solving problems	
2(d)(i)	Synthesis	knowledge and understanding - making statements	
2(d)(ii)	Synthesis	drawing valid conclusions and giving explanations supported by evidence/justification	
2(d)(iii)	Synthesis	processing information (using calculations significant figures and units, where appropriate)	1
3(a)(i)	Atomic orbitals, electronic configurations and the periodic table	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	
3(a)(ii)	Atomic orbitals, electronic configurations and the periodic table	applying knowledge to new situations, interpreting, solving problems	
3(b)(i)	Electromagnetic radiation and atomic spectra	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	
3(b)(ii)	Electromagnetic radiation and atomic spectra	applying knowledge to new situations, interpreting, solving problems	
3(c)(i)	Transition metals	applying knowledge to new situations, interpreting, solving problems	
3(c)(ii)	Transition metals	knowledge and understanding - making statements	1
3(d)(i)	Gravimetric analysis	knowledge and understanding - making statements	
3(d)(ii)	Gravimetric analysis	planning or designing experiments	1
3(d)(iii)	Stoichiometric calculations	applying knowledge to new situations, interpreting, solving problems	

Question	Area of Course	Question Type	Grade A
4(a)(i)	Molecular orbitals	applying knowledge to new situations, interpreting, solving problems	
4(a)(ii)	Electromagnetic radiation and atomic spectra	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	1
4(b)	Molecular orbitals	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	1
4(c)	Molecular orbitals	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	1
5	Practical skills and techniques	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	2
6(a)(i)	Experimental determination of structure	knowledge and understanding - making statements	
6(a)(ii)	Experimental determination of structure	knowledge and understanding - making statements	
6(b)(i)	Experimental determination of structure	selecting information	
6(b)(ii)	Experimental determination of structure	drawing valid conclusions and giving explanations supported by evidence/justification	1
6(b)(iii)	Experimental determination of structure	making predictions based on evidence/information	
6(c)	Experimental determination of structure	drawing valid conclusions and giving explanations supported by evidence/justification	1
7(a)(i)	Synthesis	applying knowledge to new situations, interpreting, solving problems	
7(a)(ii)	Chemical equilibrium	applying knowledge to new situations, interpreting, solving problems	
7(b)(i)	Volumetric analysis	knowledge and understanding - making statements	
7(b)(ii)	Stoichiometric calculations	applying knowledge to new situations, interpreting, solving problems	
8(a)(i)	Chemical equilibrium	applying knowledge to new situations, interpreting, solving problems	
8(a)(ii)	Chemical equilibrium	applying knowledge to new situations, interpreting, solving problems	2
8(a)(iii)	Chemical equilibrium	applying knowledge to new situations, interpreting, solving problems	
8(a)(iv)	Chemical equilibrium	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	1
8(b)	Atomic orbitals, electronic configurations and the periodic table	drawing valid conclusions and giving explanations supported by evidence/justification	1
9(a)	Transition metals	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	1
9(b)(i)A	Volumetric analysis	planning or designing experiments	
9(b)(i)B	Practical skills and techniques	planning or designing experiments	1
9(b)(ii)	Stoichiometric calculations	applying knowledge to new situations, interpreting, solving problems	

Question	Area of Course	Question Type	Grade A
10(a)(i)	Reaction feasibility	applying knowledge to new situations, interpreting, solving problems	
10(a)(ii)	Reaction feasibility	applying knowledge to new situations, interpreting, solving problems	1
10(a)(iii)	Reaction feasibility	applying knowledge to new situations, interpreting, solving problems	
10(b)	Transition metals	knowledge and understanding - making statements	
10(c)	Synthesis	drawing valid conclusions and giving explanations supported by evidence/justification	
10(d)	Synthesis	applying knowledge to new situations, interpreting, solving problems	1
10(e)	Synthesis	processing information (using calculations significant figures and units, where appropriate)	1
11(a)(i)	Volumetric analysis	applying knowledge to new situations, interpreting, solving problems	
11(a)(ii)	Chemical equilibrium	planning or designing experiments	1
11(a)(iii)	Volumetric analysis	evaluating experiments and suggesting improvements	1
11(b)(i)	Volumetric analysis	evaluating experiments and suggesting improvements	
11(b)(ii)	Non-specific	processing information (using calculations significant figures and units, where appropriate)	1
12(a)	Synthesis	applying knowledge to new situations, interpreting, solving problems	
12(b)(i)	Synthesis	applying knowledge to new situations, interpreting, solving problems	
12(b)(ii)	Synthesis	applying knowledge to new situations, interpreting, solving problems	
12(b)(iii)	Synthesis	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	1
12(c)(i)	Synthesis	knowledge and understanding - making statements	
12(c)(ii)	Synthesis	knowledge and understanding - making statements	
12(d)	Synthesis	demonstrating knowledge and understanding of chemistry by providing descriptions and explanations and integrating knowledge	2