

# ANALYSIS (CHEMISTRY 2024) \*ACCORDING TO TRIAL SPM 2024\*

	MRSM	SBP	Johor BP	Johor MPSM	Johor Muar	Johor PG Set 1	Johor PG Set 2	Kelantan MPSM	N9
Q1	F4C3 Molecular formula & Qualitative / Quantitative	F4C2 Physical changes & matter	F4C8 Alloy	F5C5 Cosmetics	F4C8 Alloy	F5C5 Food additives	F5C5 Food additives	F4C5 Dative bond	F4C2 Heating curve
Q2	F5C4 Polymer	F4C8 Glass & Ceramics	F5C5 Green technology	F4C4 G17	F4C2 Heating curve	F4C4 Period 3	F4C4 Period 3	F4C2 Type of particles	F4C4 G17
Q3	F4C5 Ionic Compound	F5C4 Polymer	F5C1 Extraction of metal (Electrolysis)	F4C2 Cooling curve & set up	F5C5 Graphene	F4C2 Subatomic particles	F4C2 Heating curve & physical changes	F4C3 Experiment (Empirical formula)	F4C5 Ionic compound
Q4	F4C8 Glass	F4C4 Periodic Table	F5C3 Heat of combustion	F5C4 Latex & polymer	F4C3 Experiment (Empirical formula)	F5C4 Polymer & Latex coagulation	F5C4 Polymer (Condensation) & Vulcanised rubber	F4C6 Indicator & Neutralisation	F5C4 Vulcanised & Unvulcanised rubber
Q5	F4C2 Subatomic particles & RAM	F5C5 Food additives & Hydrogenation	F4C6 Properties of acid & pH	F4C8 Alloy	F4C6 Properties of acid & neutralisation	F4C8 Alloy	F4C8 Ceramics & Composite material	F4C4 Period 3	F4C8 Alloy & Composite Material
Q6	F5C2 Flowchart (Ester / Carboxylic acid / Alcohol)	F4C5 Ionic & Covalent Compound & Dative bond	F4C4 Period 3	F5C1 U-tube	F5C2 Isomer (Alkane / Alkene) & Esterification	F5C1 Electrolysis & Corrosion of Metal	F5C1 Electrolysis & Electroplating	F5C4 Vulcanised & Unvulcanised rubber	F5C3 Heat of Combustion
Q7	F4C4 G1	F5C2 Combustion / Alkane / Ester	F5C2 Flowchart (Ester / Carboxylic acid / Alcohol)	F5C2 Flowchart (Alcohol & carboxylic acid)	F5C1 Electrolytic & Chemical cell	F5C2 Ester / Alkane / Alkene / Alcohol	F5C2 Alkene & Chemical reaction	F5C1 Displacement & Rusting	F5C5 Soap & Detergent + Cosmetics + Food additives
Q8	F5C1 Rusting & U-tube	F4C6 Standard solution / Double Decomposition / Cation Test	F4C5 Ionic compound & properties	F5C3 Heat of combustion & Fuel value	F4C7 ROR & Collision theory	F5C3 Heat of precipitation	F5C3 Heat of precipitation & fuel value	F5C2 Alkane / Alkene / Alcohol	F5C1 Electrolysis + Rusting
Q9	F5C3 Heat of displacement	F4C7 Collision theory essay & graph	F4C6 Salt analysis & standard solution & neutralisation	F4C5 Ionic & Covalent Compound with properties	F5C3 Heat of displacement & precipitation	F4C5 Ionic & Covalent Compound / Hydrogen Bond	F4C5 Ionic & Covalent Compound / Metallic bond	F4C7 ROR & Collision theory & Energy profile diagram	F4C7 ROR + Collision Theory
Q10	F4C7 Collision theory essay	F5C1 Chemical cell & electrolysis	F4C7 Collision theory & calculation & graph	F4C7 Collision theory & graph	F4C4 & C5 Group 1 & Ionic and Covalent Compound	F4C7 Collision Theory	F4C7 Collision Theory	F5C3 Heat of neutralisation & Exo & Endo	F5C2 Flowchart (Alkene / Alkane / Alcohol)
Q11	F4C6 pH / acid / salt preparation / neutralisation application	F5C3 Heat of precipitation & combustion	F5C1 Electrolysis & Chemical cell	F4C6 Flowchart (Salt Analysis) & Double decomposition	F4C6 Salt analysis & Dilution & Strength of acid	F4C6 Acid & Decomposition & Chemical reaction of acid	F4C6 Role of water in acid & decomposition & chemical reaction of acid	F5C5 & F4C8 Medicine & Soap + Detergent + Alloy	F4C6 Salt preparation & Salt Analysis

	Putrajaya	Perak MPSM S1	Selangor	Perlis	Johor Pontian	Kedah	Terengganu	UD3 Melaka	Pahang MPSM
Q1	F4C2 Subatomic particles	F5C5 Cosmetics & Nanotechnology	F5C5 Cosmetics	F4C4 G1 & G17	F5C5 Saponification & Medicine	F4C5 Ionic & Covalent Compound	F5C5 Medicine	F4C3 Chemical Formula & Interpretation	F4C3 RAM
Q2	F4C8 Alloy & Ceramics	F4C4 G17	F4C4 Transition element & G18	F5C2 Alcohol (Isomer & Naming)	F4C4 Periodic Table (Ion / Period 3)	F4C3 Molecular Formula & Particles	F4C2 Heating Curve	F4C8 Glass & Composite Material	F4C8 Ceramics
Q3	F4C4 Periodic Table	F5C4 Polymer & Latex Coagulation	F4C2 Subatomic particles & Isotopes / RAM	F4C2 Subatomic particles & nucleon number	F4C2 Heating Curve & Physical Changes	F4C2 Subatomic particles & RAM	F5C4 Polymer	F5C4 Polymer & Rubber	F5C4 Natural & Synthetic Rubber
Q4	F5C1 Electrolytic & Chemical Cell	F4C8 Ceramics & Glass	F4C5 Ionic compound	F4C5 Covalent bond	F5C4 Polymer & Rubber	F4C4 Periodic Table & Calculation	F4C3 Mole Concept	F5C5 Medicine & Saponification	F4C2 Heating Curve
Q5	F5C5 Food additives & Nanotechnology	F4C3 Empirical Formula (CuO & MgO)	F4C8 Alloy & Glass	F4C3 Molecular formula & Fertiliser / Decomposition	F4C8 Alloy & Experiment	F4C7 ROR + Graph & Calculation	F4C7 ROR + Energy Profile Diagram + Calculation	F4C4 Group 1 & Period 3	F5C2 Alkene & Combustion / Testing
Q6	F4C3 Mole Calculation	F5C1 Metal Extraction (Bauxite) & Electrolysis	F4C3 Equation & Mole Calculation	F4C6 Double decomposition	F5C1 Electrolysis	F5C2 Alkene / Alcohol / Carboxylic acid	F4C4 Period 3	F4C7 ROR & Calculation & Collision theory	F5C5 Medicine & Cosmetics & Food additives
Q7	F5C2 Alkane / Alkene & Preparation of alcohol	F5C3 Heat of Combustion & Fuel Value	F5C1 Rusting	F4C8 Composite materials	F5C2 Flowchart (Alkene & Alcohol & Ester)	F5C1 U-tube experiment	F5C1 U-tube Experiment	F5C2 Flowchart (Alkene & Alcohol)	F5C1 U-tube & Rusting
Q8	F4C7 ROR / Graph / Application	F4C6 Double Decomposition & Continuous Variation Method	F5C2 Alcohol & Alkene / Synthetic rubber	F5C3 Heat of Combustion	F5C3 Heat of Precipitation	F5C4 Addition Polymer & Latex Coagulation	F5C3 Heat of Precipitation	F4C6 Neutralisation & Crystallisation & Role of water in acid	F5C3 Heat of Precipitation
Q9	F4C6 Acid & Neutralisation / Salt Analysis	F4C5 Covalent Compound & Dative bond / Properties	F5C3 Heat of Combustion & Fuel Value / Heat of Displacement	F4C7 ROR (Collision Theory)	F4C5 Hydrogen bond / Ionic & Covalent Compound with Properties	F5C3 Heat of Displacement & Precipitation	F4C6 Acid properties & pH + Conc. of OH <sup>-</sup> & Double decomposition	F5C3 Heat of precipitation & displacement	F4C4 G17 & Chemical reaction & Period 3 oxide & Transition element
Q10	F4C5 Dative bond & Metallic bond / Solubility of ionic & covalent compound	F4C7 ROR & Collision Theory	F4C7 ROR (Decomposition of H <sub>2</sub> O <sub>2</sub> ) & Collision theory	F5C4 Polymer	F4C7 ROR (Collision Theory + Antacid)	F4C8 & F5C5 Ceramics & Alloy & Food additives & Washing action	F4C5 Ionic & Covalent Compound (Properties & Formation)	F4C4 & C5 Group 1 / Ionic & Covalent compound	F4C6 Standard solution & Neutralisation & Strength of acid & alkali
Q11	F5C3 Heat of Displacement & Fuel value & Cooling pack	F5C2 Flowchart (Alkene / Alcohol / Combustion / Esterification)	F4C6 Acid properties & Standard solution	F5C1 Corrosion of metal & Metal Extraction & U-tube	F4C6 Flowchart (Salt analysis + Double decomposition + Preparation of crystal)	F4C6 Standard solution & Flowchart (Salt analysis) & Preparation of fertiliser (Titration)	F5C2 Alkene & Alcohol & Esterification	F5C1 Electrolytic & Chemical Cell & Rusting + Electroplating	F4C7 ROR + Calculation + Collision theory + Diprotic acid