

STANZA BOPAPE SECONDARY SCHOOL**GRADE 11 SCOPE FOR PHYSICAL SCIENCES****JUNE EXAMINATIONS****PAPER 1: PHYSICS****DURATION: 2 HOURS****MARKS: 100****TERMINOLOGY**

Vector, Scalar, resultant vector, normal force, frictional force, inertia, newton 1st, 2nd and 3rd laws, Newton's law of universal gravitation, Coulomb's law, Electric field, electric field at a point, ohm's law, Emf, Current strength, power

QUESTION 1 8 multiple choice questions All topics covered in this scope	[16]
QUESTION 2 - Vectors in 2D questions. - Solving problems involving horizontal and vertical components; resultant vectors, closed vector diagrams	[10]
QUESTION 3 - Questions on Newton's law of gravitation - Solve problems on gravitational forces, weight and gravitational acceleration	[8]
QUESTION 4 - Questions on single body systems on the flat surface, incline plane or hanging, with or without friction. - Drawing free-body diagrams - Solving problems by applying Newton's 1st, 2nd or 3rd law	[16]

QUESTION 5 - Questions on two body systems (joined with a string) on the flat surface, incline plane or hanging, with or without friction - Drawing free-body diagrams - Solving problems by applying Newton's 1st, 2nd or 3rd law - Questions on investigating relationships between acceleration, net force and mass given data tables and/or graphs	[16]
QUESTION 6 - Questions on electrostatic forces and electric field between charges - Electric field patterns - Solving problems involving electrostatic forces and electric field for two or more charges	[14]
QUESTION 7 - Questions on Ohm's law experiment including ohmic and non-ohmic conductors - Solving circuit problems with a maximum of four resistors connected in series and parallel combinations - Explain differences in brightness of light bulbs	[18]
TOTAL:	100

PAPER 2: CHEMISTRY**DURATION: 2 HOURS****MARKS: 100****TERMINOLOGY**

Covalent bonding, molecules, valence electrons, dative/coordinate covalent bond, electronegativity, bond energy, bond length, interatomic and intermolecular forces, boiling and melting points, vapour pressure, mole, one mole, molar mass, concentration

QUESTION 1 8 multiple choice questions All topics covered in this scope	[16]
QUESTION 2 - Draw Lewis dot diagrams for atoms, molecules and ions. - Answer questions on molecular shapes, polarity of bonds	[16]
QUESTION 3 - Determine bond polarity and polarity of molecules by using electronegativities - Answer questions on bond energies and bond length given data tables and graphs.	[14]
QUESTION 4 - Identify the type of intermolecular forces given the names or formulae of molecules - Explain differences in boiling points, melting points and vapour pressures by referring to the types of intermolecular forces and/or molecular masses	[16]

QUESTION 5 - Calculations based on molar mass, volume of gas at STP, concentration of aqueous solutions, number of moles, number of atoms/ molecules/ ions etc. - Balance chemical equations	[16]
QUESTION 6 - Determine percentage composition of compounds, empirical and molecular formulae - Solve problems by performing stoichiometric calculations based on balanced equations which include percentage yield.	[20]
TOTAL:	100

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R Sanford



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