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SUBJECT: BIOLOGY (9700)
GRADE: 11

Term 1

- Cell structure
- 2. Biological molecules
- 3. Enzymes
- 4. Cell membranes and transport
- 5. The mitotic cell cycle

WADA

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SUBJECT (Chemistry) GRADE (11)

Term 1

Physical chemistry

1 Atomic structure

- Particles in the atom and atomic radius
- Isotopes
- Electrons, energy levels and atomic orbitals
- Ionisation energy

2 Atoms, molecules and stoichiometry

- Relative masses of atoms and molecules
- The mole and the Avogadro constant
- Formulae
- Reacting masses and volumes (of solutions and gases)

3 Chemical bonding

- Electronegativity and bonding
- Ionic bonding
- Metallic bonding
- Covalent bonding and coordinate (dative covalent) bonding
- Shapes of molecules
- Intermolecular forces, electronegativity and bond properties
- Dot-and-cross diagrams

4 States of matter

- The gaseous state: ideal and real gases and pV = Nrt
- Bonding and structure

5 Chemical energetics

- Enthalpy change, ΔH
- Hess's Law

6 Electrochemistry

• Redox processes: electron transfer and changes in oxidation number (oxidation state)

7 Equilibria

- Chemical equilibria: reversible reactions, dynamic equilibrium
- Brønsted–Lowry theory of acids and bases



SUBJECT (COMPUTER SCIENCE 9618) GRADE (11)

Term 1

- 1. Information Representation
 - 1.1 Data Representation
 - 1.2 Multimedia
 - 1.3 Compression
- 2. Communication.
 - 2.1 Networks including the internet
- 3. Hardware
 - 3.1 Computers and their components
 - 3.2 Logic Gates and Logic Circuits
- 4. Processor Fundamentals
 - 4.1 Central Processing Unit (CPU) Architecture
 - 4.2 Assembly Language
- 8. Databases
 - 8.1 Database Concepts
 - 8.2 Database Management System (DBMS)
 - 8.3 Data Definition Language (DDL) and Data Manipulation

Language (DML)

11. Programming

- 11.1 Programming Basics
- 11.2 Constructs
- 11.3 Structured Programming

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SUBJECT Mathematics GRADE 11

Term 1

- Mechanics 4.1 Forces and Equilibrium
- Pure 1 1.1 Quadratics
- Pure 1 1.2 Functions
- Pure 1 1.3 Coordinate Geometry
- Pure 1 1.4 Circular measure
- Pure 1 1.5 Trigonometry
- Mechanics 4.2 Kinematics of motion in a straight line
- Mechanics 4.3 Momentum



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SUBJECT: Physics GRADE 11

Term 1

- 1- Physical quantities and units
- 2- Kinematics
- 3- Dynamics
- 4- Forces, Density and pressure
- 5- Work, energy & power
- 6-Deformation of solids
- 7- Waves
- 8- Superposition