**NEW LOWER SECONDARY CHEMISTRY BREAK DOWN 2024.**

PAPER CODE: 545/1

TIME: 2 HOURS.

SECTION A. (15 scores)

EOC2: Application of chemistry in daily life (7 scores)

* Chemicals for consumers
* Detergents
* Food additives
* Medicines
* Nuclear processes.
* Nuclear fission
* Nuclear fusion
* **Basis of assessment (CDE)**
* Category, function (2 scores)
* Dangers (DEM) (3 scores)
* Evaluation (differences and similarities) (2 scores)

EOC3: Diversity and interaction of substances and their importance in life (8 scores)

* Using materials
* Reactivity series (alloys)
* Trends in the periodic table ( bonds and structures)
* Formula, stoichiometry and mole concept.
* Carbon in life ( polymers,subtances in life and plastics)
* Air ( rusting and combustion)

**Basis of assessment (CPD)**

* Category, reason and example (3 scores)
* Properties (at least any 4 and the use) (3 scores)
* Danger (DM) (2 scores)

SECTION B. (17 scores)

PART ONE

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EOC1: Contribution of chemistry to our economy (9 scores)

* Industrial processes
* Extraction of aluminum, iron and copper.
* Manufacture of soap, oxygen, chlorine, sodium hydroxide, sulphuric acid, fertilizers, cement, detergents, lime and purification of crude oil.

**Basis of assessment (PDB)**

* Production process (3 scores)

Raw materials

Vessel

Chemical properties

Physical properties

Purification

Conversion to desired product

Coherent.

* Dangers ( DEM) ( 3 scores)
* Social benefits of the process (SEI) (3 scores).

PART TWO.

EOC4: Existence of natural resources in the environment and their importance in everyday life. (8 scores)

* Natural resources
* Air
* Water
* Rocks And Minerals
* Fossil Fuels
* Carbon Based Fuels.

**Basis of assessment (CHB)**

* Category (Renewable and non-renewable) (3 scores)

Reason, Example and Components

* Impact of the human activity to the natural resource (3 scores)

Human activity, impact and mitigation

* Benefit of the resource.

END