

## **SYLLABUS of SCIENCE for ADMISSION to GRADE: 7**

**Basic level of Cellular Organization:** Cell, Tissue, Organ, Organ System, Organism

**Animal and Plant Cells:** Structure, Similarities and Differences, sexual and asexual reproduction in plants

**Constituents of a Balanced Diet:** Protein, Carbohydrates, Fats, Water, Minerals and Vitamins

### **Human Digestive System**

#### **Particle theory of Matter:**

**Changes in states of Matter:** Melting, Freezing, Vapourization, Condensation, Sublimation and Deposition

#### **Elements (Metals and Non-metals) and Compounds**

**Mixtures and its types:** Homogeneous and Heterogeneous, Separation Techniques for Mixtures (Filtration, Evaporation, Distillation and Chromatography)

#### **Formation of Solutions**

**Kinetic and Potential Energy:** Types of Energy, Energy Conversions, Law of Conservation of Energy, Renewable and Non-Renewable Energy Sources

**Electricity:** Static Electricity, Electric Current, Electric Circuit, Open and Closed Circuits, Series and Parallel Circuits

**Magnetism:** Magnetic Field, Magnetic Field around a Conductor, Types of Magnet, Electromagnet, Magnetization and Demagnetization