

**GSEO SYLLABUS**

**Class 12**

**The actual test paper has 50 questions. Time allowed : 60 minutes. There are 2 sections: 25 questions in each section A & B.**

**Syllabus**

**Section – A (Science) : Physics :** Unit & Measurements, motion in a Straight line, Motion in a Plane, Laws of motion, Work Energy & Power, System of Particle and Rotational Motion, Gravitation, Mechanical Properties of Solids, Mechanical Properties of Fluids, Thermal Properties Of Matter, Thermodynamics, Kinetic Theory, Oscillations, Waves, Biological Classification

**Chemistry :** The Solid State, Solutions ,Electrochemistry, Chemical kinetics, Surface Chemistry, General Principles and Processes of Isolation of Elements, The p- Block elements, d- and f- Block Element, Coordination Compound, Haloalkanes and Haloarenes, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehyde, ketones and carboxylic acid, Amines, Bimolecular, Polymers, Chemistry in Everyday Life

**Biology :** The Living World, Biological Classification, Plant Kingdom, Animal Kingdom, Morphology Of Flowering Plants, Anatomy of Flowering Plants, Structural Organization in Animals Summary, Cell: unit of life, Biomolecules, Cell cycle & cell Division, Transport in Plants.

**Section – B (Environmental Science) :** Familiarization with one's own body, Awareness about immediate surroundings, Need for food, water, air, shelter, clothing and recreation, Importance of trees and plants, Familiarization with local birds, animals and other objects, Interdependence of living and non-living things, Importance of cleanliness and sanitation, Importance of celebration of festivals and national days, Awareness of sunlight, rain and wind, Caring for pet animals, Awareness about air, water, soil and noise pollution, Need for the protection of environment, Knowledge about the source of energy, Importance of the conservation of water resources and forests and, Indigenous and traditional knowledge about the protection of environment. Adaptation of living beings in environment, Natural resources, Water cycle, Food chain, Importance of plants and trees in keeping the environment clean, Classification of plants, Role of plants and animals in environmental balance and soil conservation, Ecosystems, Necessity of clean air for healthy living, Animals and their characteristics, Effects of environmental pollution and the consequences of air pollution-(i) Greenhouse effect, (ii) Ozone layer depletion and, (iii) increase in carbon dioxide, Role of microorganisms in the environment, Dependence of the community on the environment, Basic knowledge about the Earth and its atmosphere, Physical features of the country, Population and environment, Care and protection

of livestock, Necessity of wildlife protection, Impact of deforestation, Impact of industrialization on environment; and, Role of civic society in protection of the environment, personal and public property including monuments.

