

# **Syllabus of the examination**

## **Mathematics**

- 3D-Geometry
- Circles
- Definite Integration
- Differential Equations
- Differentiations and its Applications
- Ellipse
- Hyperbola
- Indefinite Integration
- Limits and its Applications
- Parabola
- Straight Lines and Family of Straight Lines
- Vectors

## **Biology**

- Animal Nutrition and Digestive System of Cockroach & Humans
- Biological Resources and Biodiversity
- Circulation in Animals
- Excretion and Osmo regulation in Animals
- Food Production
- Growth and Development in Plants
- Growth, Regeneration and Ageing
- Human Endocrine System
- Immunity and Human Health
- Mineral Nutrition
- Modern Methods of Diagnosis
- Movement and Locomotion in Animal
- Natural Resources: Their Kinds and Sources
- Nervous System of Cockroach and Humans
- Organism and their Environment
- Photosynthesis
- Pollution and its Control
- Population – Environment and Development
- Reproduction and Development in Animals
- Reproduction in Flowering Plants
- Respiration
- Respiration in Animals
- Water Relation of Plants

## **Chemistry**

- Alcohols, Phenol and Ether
- Aldehydes, Ketones and Carboxylic Acids
- Atomic Structure and Chemical Bonding
- Biomolecules
- Chemical Kinetics
- Chemistry in Everyday Life
- Compounds
- Elements
- Electrochemistry
- Nitro compounds
- Nuclear Chemistry
- P-Block Elements
- Polymer Substances
- Solid State
- Solution
- Stereochemistry
- Surface Chemistry
- Thermodynamics

## **Physics**

- Current Electricity
- Radiations and Matter, Atom and Nucleus
- Electromagnetic Waves and Optics
- Magnetism, Electromagnetic Induction and Alternating Current
- Semiconductor Electronics and Communication
- Static Electricity