

Karnataka Common Entrance Test

S.No	Subjects	No of Questions	Total Marks	Duration
1.	Mathematics	60	60	80 Minutes
2.	Biology	60	60	80 Minutes
3.	Physics	60	60	80 Minutes
4.	Chemistry	60	60	80 Minutes
5.	Kannada (in case)	50 (Separate test)	50	
	Total	230	230	

Karnataka Common Entrance Test Syllabus - Topic Wise

Mathematics

- Algebra.
- Trigonometry.
- Two-dimensional Coordinate Geometry.
- Three-dimensional Coordinate Geometry.
- Probability.
- Vectors.
- Statistics.
- Differential calculus.
- Integral calculus.
- Ordinary Differential Equations.
- Linear Programming.

Physics

- Physical World & Measurement
- The behaviour of Perfect Gas & Kinetic Theory of Gases
- Thermodynamics
- Practical Oriented questions
- Oscillations & Waves
- Kinematics
- Properties of Bulk Matter
- Gravitation
- The motion of the System of Particles & Rigid Body

- Work, Energy & Power
- Laws of Motion

Biology

This section consists of both Botany & Zoology Syllabus.

Biology

- Cell Biology & Genetics,
- The diversity of Plant Life on Earth
- Histology & Plant Anatomy
- Introduction to Ecology & Taxonomy

Zoology

- Tissues of humans
- Nervous System
- Circulation
- Digestion
- Respiration
- Human Reproduction
- Origin Of Life
- Animal Resources & Human Welfare Dairy
- Organic Evolution
- Developmental Biology
- Study of the Cell
- Cell Division
- The diversity of Animal Life

Organic Chemistry:

1. Alcohol and Ether
2. Chemistry in action
3. Biomolecules and Polymers
4. Carbonyl Compounds
5. Carboxylic Acid and its Derivatives
6. Classification and Nomenclature
7. General Organic Chemistry
8. Haloalkanes
9. Haloarenes and Phenols
10. Hydrocarbons: Alkanes, Alkenes and Alkynes

11. Isomerism
12. Nitrogen Compound and Aliphatic Amines
13. Practical and Environmental Chemistry

Inorganic Chemistry:

1. Chemical Bonding
2. Coordination Compounds
3. D-Block and F-Block Elements
4. Metallurgy
5. P-Block Elements
6. Periodic Properties
7. Qualitative Analysis
8. S-Block Elements, Hydrogen and its Compounds

Physical Chemistry:

1. Chemical Equilibrium
2. Atomic Structure
3. Chemical Kinetics
4. Electrochemistry
5. Gaseous State
6. Ionic Equilibrium
7. Mole Concept
8. Nuclear Chemistry
9. Redox and Volumetric Analysis
10. Solid State
11. Solution (General and Colligative Properties)
12. Thermodynamics and Thermochemistry