



## Important Chapters for BIHAR CECE 1st Stage-2015

The scrutiny of the Question Paper in Bihar CECE First Stage over a period of 14 Years reveals that the approximate break-up of number of questions that one can expect in Bihar CECE First Stage-2015 is as follows:

### PHYSICS

S.N.	Chapters	Number of Questions
1.	Units & Measurements	2
2.	Mechanics	3
3.	Mechanical Properties of Fluids	1
4.	Thermal Properties of Matter	2
5.	Kinetic Theory	2
5.	Sound Wave	2
6.	Ray Optics & Optical Instruments	22
7.	Electric Charges & Fields	1
8.	Moving Charges & Magnetism	1
9.	Wave Optics	5
10.	Modern Physics	9
	Total No. of Questions in Physics	50

### CHEMISTRY

#### Physical Chemistry

S.N.	Chapters	Number of Questions
1.	Some basic concepts of Chemistry	1
2.	Structure of Atom	2
3.	Chemical Bonding	4
4.	Periodic Table	0
5.	Gaseous State	2
6.	Thermodynamics	2
7.	Equilibrium	2
8.	Redox Reaction	1
9.	The Solid State	1
10.	Solutions	2
11.	Electrochemistry	1
12.	Chemical Kinetics	2
13.	Surface Chemistry	2
	Total No. of questions in Physical Chemistry	22

### CHEMISTRY

#### Organic Chemistry

S.N.	Chapters	Number of Questions
1.	Some basic concepts of Chemistry : Tricks & Techniques : (i) Nomenclature (ii) Isomerism (iii) Reaction Mechanism	2 2 3
2.	Hydrocarbon	3
3.	Halalkane & Haloarene	0
4.	Alcohol, Phenol & Ether	3
5.	Aldehyde, Ketone & Carboxylic Acids	3
6.	Amine	1
7.	Biomolecules	0
8.	Polymer	0
9.	Chemistry in Everyday Life	0
	Total No. of Questions in Organic Chemistry	17

### CHEMISTRY

#### Inorganic Chemistry

S.N.	Chapters	Number of Questions
1.	Hydrogen	1
2.	s-block	2
3.	p-block	2
4.	d-block	2
5.	f-block I	0
6.	General principles and process of isolation of Elements	1
7.	Co-ordination Compounds	2
8.	Analytical Chemistry	1
	Total No. of Questions in inorganic Chemistry	11

### BIOLOGY

S.N.	Chapters	Number of Questions
1.	Unit 1 : The Living World	3
2.	Unit 2 : Structural Organisation of Plant & Animal	5
3.	Unit 3 : Cell : The Unit of Life	5
4.	Unit 4 : Plant Physiology	7
5.	Unit 5 : Human Physiology	24
6.	Unit 6 : Reproduction	1
7.	Unit 7 : Genetics & Evolution	1
8.	Unit 8 : Biology in Human Welfare	1
9.	Unit 9 : Biotechnology	0
10.	Unit 10 : Ecology	3
	Total No. of Questions in Biology	50

### Mathematics

#### Trigonometry

S.N.	Chapters	Number of Questions
1.	Transformation	1
2.	Multiple Angle	1
3.	Trigonometric Equation & their General Solutions	1
4.	Inverse Trigonometric Function	1
5.	Properties of Triangle	1
	Total No. of Questions in Trigonometry	5

#### Algebra

S.N.	Chapters	Number of Questions
1.	Complex Number	2
2.	Sequence & Series	2
3.	Quadratic Equation & Expressions	2
4.	Permutation & Combination	2
5.	Binomial Theorem	3
6.	Probability	3
7.	Determinant	2
8.	Matrices	1
	Total No. of Questions in Algebra	17

#### Co-ordinate Geometry

S.N.	Chapters	Number of Questions
1.	Straight Line	1
2.	Pair of Straight Line	1
3.	Circle	1
4.	Parabola	2
5.	Ellipse	1
6.	Hyperbola	1
	Total No. of Questions in Co-ordinate Geometry	7

#### Calculus

S.N.	Chapters	Number of Questions
1.	Function	3
2.	Limit	2
3.	Continuity	1
4.	Differentiation	1
5.	Tangent & Normal	2
6.	Rate Measure	1
7.	Indefinite Integration	2
8.	Definite Integration	2
9.	Area	1
10.	Differential Equation	2
	Total No. of Questions in Calculus	17

#### Vector

S.N.	Chapters	Number of Questions
1.	Dot Product of two Vectors	1
2.	Cross Product of two Vectors	1
	Total No. of Questions in Vector	2

#### Dynamics

S.N.	Chapters	Number of Questions
1.	Straight Line Motion	1
2.	Projectile Motion	1
	Total No. of Questions in Dynamics	2