



## Important Chapters for BIHAR CECE 2nd Stage-2015

The scrutiny of the Question Paper in Bihar CECE 2nd 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	12
2.	Mechanics	46
3.	Mechanical Properties of Fluids	5
4.	Thermal Properties of Matter	4
5.	Thermodynamics	1
6.	Sound Wave	7
7.	Ray Optics & Optical Instruments	3
8.	Electrostatic Potential & Capacitance	2
10.	Current Electricity	1
11.	Moving Charges & Magnetism	2
12.	Electromagnetic Induction	3
13.	Alternating Current	3
14.	Wave Optics	2
15.	Modern Physics	9
	Total No. of Questions in Physics	100

CHEMISTRY		
Physical Chemistry		
S.N.	Chapters	Number of Questions
1.	Some basic concepts of Chemistry	4
2.	Structure of Atom	12
3.	Chemical Bonding	8
4.	Thermodynamics	4
5.	Equilibrium	4
6.	Redox Reaction	6
7.	The Solid State	1
8.	Solutions	1
9.	Electrochemistry	4
10.	Chemical Kinetics	3
11.	Surface Chemistry	5
	Total No. of questions in Physical Chemistry	52

CHEMISTRY		
Organic Chemistry		
S.N.	Chapters	Number of Questions
1.	Some basic concepts of Chemistry : Tricks & Techniques : (i) Nomenclature (ii) Isomerism (iii) Reaction Mechanism	3 2 6
2.	Hydrocarbon	5
3.	Alcohol, Phenol & Ether	3
4.	Aldehyde, Ketone & Carboxylic Acids	2
5.	Amine	1
6.	Biomolecules	3
7.	Polymer	1
8.	Chemistry in Everyday Life	1
	Total No. of Questions in Organic Chemistry	27

CHEMISTRY		
Inorganic Chemistry		
S.N.	Chapters	Number of Questions
1.	Hydrogen	3
2.	s-block	7
3.	p-block	5
4.	d-block	1
5.	General principles and process of isolation of Elements	2
6.	Co-ordination Compounds	2
7.	Analytical Chemistry	1
	Total No. of Questions in inorganic Chemistry	21

BIOLOGY		
S.N.	Chapters	Number of Questions
1.	Unit 1 : The Living World	35
2.	Unit 2 : Structural Organisation of Plant & Animal	14
3.	Unit 3 : Cell : The Unit of Life	13
4.	Unit 4 : Plant Physiology	7
5.	Unit 5 : Human Physiology	17
6.	Unit 6 : Reproduction	3
7.	Unit 7 : Genetics & Evolution	7
8.	Unit 8 : Biology in Human Welfare	1
9.	Unit 9 : Biotechnology	0
10.	Unit 10 : Ecology	3
	Total No. of Questions in Biology	100

Mathematics		
Trigonometry		
S.N.	Chapters	Number of Questions
1.	Trigonometrical Function	1
2.	Compound Angle	1
3.	Multiple Angle & Sub Multiple Angle	3
4.	Transformation	1
5.	Trigonometrical Equation & their General Solution	1
6.	Inverse Trigonometric Function	2
7.	Properties of Triangle	2
8.	Height & Distance	2
	Total No. of Questions in Trigonometry	13

Mathematics		
Algebra		
S.N.	Chapters	Number of Questions
1.	Complex Number	4
2.	Sequence & Series	5
3.	Quadratic Equation & Expressions	6
4.	Permutation & Combination	4
5.	Binomial Theorem	7
6.	Probability	9
7.	Determinant	2
	Total No. of Questions in Algebra	37

Mathematics		
Co-ordinate Geometry		
S.N.	Chapters	Number of Questions
1.	Straight Line	6
2.	Pair of Straight Line	2
3.	Circle	4
4.	Parabola	2
5.	Ellipse	2
6.	Hyperbola	2
	Total No. of Questions in Co-ordinate Geometry	18

Mathematics		
Calculus		
S.N.	Chapters	Number of Questions
1.	Function	1
2.	Continuity	2
3.	Differentiation	1
4.	Maxima & Minima	2
5.	Indefinite Integration	3
6.	Definite Integration	5
7.	Differential Equation	2
	Total No. of Questions in Calculus	16

Mathematics		
Dynamics		
S.N.	Chapters	Number of Questions
1.	Straight Line Motion	1
2.	Motion Under Gravity	3
3.	Motion in a Plane (i) Vector (ii) Motion in Horizontal Plane (ii) Change of Frame	4 1 2
4.	Newton's Law	2
5.	Rotational Motion	3
	Total No. of Questions in Dynamics	16