

SYLLABUS & PATTERN

CLASS - 5 PATTERN & MARKING SCHEME

Section	Subject	Question No.	No. of Questions	Marks per Question	Total Marks
Section-A	Mental Ability	1 to 10	10	2	20
Section-B	Mathematics	11 to 30	20	2	40
Section-C	Science	31 to 60	30	2	60
Section-D	Achiever Question	61 to 65	5	3	15

DETAILED SYLLABUS

Section - A Mental Ability Patterns, Analogy and Classification, Geometrical Shapes, Mirror and Water Images, Direction Sense Test, Ranking Test, Alphabet Test, Logical Sequence of Words, Puzzle Test, Coding-Decoding, Clock and Calendar, etc. (Q. No. 1 to 10)	Section - B Mathematics Number System, HCF & LCM, Fractions, Decimals, Percentage, Ratio and Proportion, Average, Profit and Loss, Simple Interest, Time and Work, Time and Distance, Mensuration, Geometry, Data Handling, etc. (Q. No. 11 to 30)	Section - C Science Physics (Q. No. 31 to 38) Matter and Materials, Force and Energy, Light, Sound, Heat, etc. Chemistry (Q. No. 39 to 46) Matter and its Properties, Changes in Matter, Air and Water, etc. Biology (Q. No. 47 to 60) Living and Non-living Things, Plants, Animals, Human Body and Health, Environment, etc.	Section - D Achiever Question Higher Order Thinking Questions – Syllabus as per Sections A, B and C. (Q. No. 61 to 65)
---	--	--	--

Marking Scheme :
+2 for correct answer & -0 for each incorrect answer.

Total Questions : 65
(60 objective + 5 achiever)

Total Marks : 135
(60 × 2 = 120 + 15)

CLASS - 6 PATTERN & MARKING SCHEME

Section	Subject	Question No.	No. of Questions	Marks per Question	Total Marks
Section-A	Mental Ability	1 to 10	10	2	20
Section-B	Mathematics	11 to 30	20	2	40
Section-C	Science	31 to 60	30	2	60
Section-D	Achiever Question	61 to 65	5	3	15

DETAILED SYLLABUS

Section - A MENTAL ABILITY Verbal and Non-Verbal Reasoning. (Q. No. 1 to 10)	Section - B MATHEMATICS Patterns in Mathematics, Lines and Angles, Number Play, Data Handling and Presentation, Prime Time, Perimeter and Area, Fractions, Playing with Constructions, Symmetry, The Other Side of Zero. (Q. No. 11 to 30)	Section - C SCIENCE Physics (Q. No. 31 to 38) Matter and Materials, Force and Energy, Light, Sound, Heat, etc. Chemistry (Q. No. 39 to 46) Matter and its Properties, Changes in Matter, Air and Water, etc. Biology (Q. No. 47 to 60) Living and Non-living Things, Plants, Animals, Human Body and Health, Environment, etc.	Section - D ACHIEVER QUESTION Higher Order Thinking Questions – Syllabus as per Sections A, B and C. (Q. No. 61 to 65)
--	--	--	--

Marking Scheme :
+2 for correct answer & -0 for each incorrect answer.

Total Questions : 65
(60 objective + 5 achiever)

Total Marks : 135
(60 × 2 = 120 + 15)

CLASS - 7

PATTERN & MARKING SCHEME

Section	Subject	Question No.	No. of Questions	Marks per Question	Total Marks
Section-A	Mental Ability	1 to 10	10	2	20
Section-B	Mathematics	11 to 30	20	2	40
Section-C	Science	31 to 60	30	2	60
Section-D	Achiever Question	61 to 65	5	3	15

DETAILED SYLLABUS

Section – A	Section – B	Section – C	Section – D
MENTAL ABILITY	MATHEMATICS	SCIENCE	ACHIEVER QUESTION
Verbal and Non-Verbal Reasoning.	Integers, Fractions and Decimals, Exponents and Powers, Algebraic Expressions, Simple Equations, Lines and Angles, Comparing Quantities, The Triangle and its Properties, Symmetry, Rational Numbers, Perimeter and Area, Data Handling, Visualising Solid Shapes.	Physics (Q. No. 31 to 38) Heat, Motion and Time, Electric Current and its Effects, Light, etc. Chemistry (Q. No. 39 to 46) Acids, Bases and Salts, Physical and Chemical Changes, etc. Biology (Q. No. 47 to 60) Nutrition in Plants and Animals, Respiration in Organisms, Transportation in Plants and Animals, Reproduction in Plants, Natural Resources and Their Conservation (Forests: Our Lifeline, Wastewater Story), etc.	Higher Order Thinking Questions – Syllabus as per Sections A, B and C.
(Q. No. 1 to 10)	(Q. No. 11 to 30)		(Q. No. 61 to 65)

Marking Scheme :
+2 for correct answer & -0 for each incorrect answer.

Total Questions : 65
(60 objective + 5 achiever)

Total Marks : 135
(60 × 2 = 120 + 15)

CLASS - 8

PATTERN & MARKING SCHEME

Section	Subject	Question No.	No. of Questions	Marks per Question	Total Marks
Section-A	Mental Ability	1 to 10	10	2	20
Section-B	Mathematics	11 to 30	20	2	40
Section-C	Science	31 to 60	30	2	60
Section-D	Achiever Question	61 to 65	5	3	15

DETAILED SYLLABUS

Section – A	Section – B	Section – C	Section – D
MENTAL ABILITY	MATHEMATICS	SCIENCE	ACHIEVER QUESTION
Verbal and Non-Verbal Reasoning.	Rational Numbers, Squares and Square Roots, Cubes and Cube Roots, Exponents and Powers, Comparing Quantities, Algebraic Expressions, Linear Equations in One Variable, Understanding Quadrilaterals, Mensuration, Data Handling, Direct and Inverse Proportions, Factorisation, Introduction to Graphs.	Physics (Q. No. 31 to 38) Force and Pressure, Friction, Sound, Chemical Effects of Electric Current, Some Natural Phenomena, Light. Chemistry (Q. No. 39 to 46) Crop Production and Management, Microorganisms, Coal and Petroleum, Combustion and Flame, Some Natural Phenomena, etc. Biology (Q. No. 47 to 60) Conservation of Plants and Animals, Reproduction and Endocrine System, etc.	Higher Order Thinking Questions – Syllabus as per Sections A, B and C.
(Q. No. 1 to 10)	(Q. No. 11 to 30)		(Q. No. 61 to 65)

Marking Scheme :
+2 for correct answer & -0 for each incorrect answer.

Total Questions : 65
(60 objective + 5 achiever)

Total Marks : 135
(60 × 2 = 120 + 15)

CLASS - 9

PATTERN & MARKING SCHEME

Section	Subject	Question No.	No. of Questions	Marks per Question	Total Marks
Section-A	Mental Ability	1 to 10	10	2	20
Section-B	Mathematics	11 to 30	20	2	40
Section-C	Science	31 to 60	30	2	60
Section-D	Achiever Question	61 to 65	5	3	15

DETAILED SYLLABUS

Section – A MENTAL ABILITY	Section – B MATHEMATICS	Section – C SCIENCE	Section – D ACHIEVER QUESTION
Verbal and Non-Verbal Reasoning.	Number Systems, Polynomials, Coordinate Geometry, Linear Equations in Two Variables, Introduction to Euclid's Geometry, Lines and Angles, Triangles, Quadrilaterals, Circles, Heron's Formula, Surface Areas and Volumes, Statistics.	Physics (Q. No. 31 to 38) Motion, Force and Laws of Motion, Gravitation, Work and Energy, Sound, Matter in Our Surroundings, etc. Chemistry (Q. No. 39 to 46) Is Matter Around Us Pure, Atoms and Molecules, Structure of the Atom, etc. Biology (Q. No. 47 to 60) Cell – The Fundamental Unit of Life, Tissues, Natural Resources, Improvement in Food Resources, etc.	Higher Order Thinking Questions – Syllabus as per Section – 2.
(Q. No. 1 to 10)	(Q. No. 11 to 30)		(Q. No. 61 to 65)

Marking Scheme :
+2 for correct answer & -0 for each incorrect answer.

Total Questions : 65
(60 objective + 5 achiever)

Total Marks : 135
(60 × 2 = 120 + 15)

CLASS - 10

PATTERN & MARKING SCHEME

Section	Subject	Question No.	No. of Questions	Marks per Question	Total Marks
Section-A	Mental Ability	1 to 10	10	2	20
Section-B	Mathematics	11 to 30	20	2	40
Section-C	Science	31 to 60	30	2	60
Section-D	Achiever Question	61 to 65	5	3	15

DETAILED SYLLABUS

Section – A MENTAL ABILITY	Section – B MATHEMATICS	Section – C SCIENCE	Section – D ACHIEVER QUESTION
Verbal and Non-Verbal Reasoning.	Real Numbers, Polynomials, Pair of Linear Equations in Two Variables, Quadratic Equations, Arithmetic Progressions, Triangles, Coordinate Geometry, Introduction to Trigonometry, Some Applications of Trigonometry, Circles, Areas Related to Circles, Surface Areas and Volumes, Statistics, Probability.	Physics (Q. No. 31 to 38) Light-Reflection and Refraction, Electricity, Magnetic Effects of Electric Current, etc. Chemistry (Q. No. 39 to 46) Chemical Reactions and Equations, Acids, Bases and Salts, Metals and Non-metals, Carbon and its Compounds, etc. Biology (Q. No. 47 to 60) Life Processes, Control and Coordination, Reproduction in Organisms, Heredity, The Human Eye and the Colourful World, Our Environment and Its Management, etc.	Higher Order Thinking Questions – Syllabus as per Section – 2.
(Q. No. 1 to 10)	(Q. No. 11 to 30)		(Q. No. 61 to 65)

Marking Scheme :
+2 for correct answer & -0 for each incorrect answer.

Total Questions : 65
(60 objective + 5 achiever)

Total Marks : 135
(60 × 2 = 120 + 15)