



PAPER LAYOUT

Subject	No. of Questions & Marks	Total Marks	Subject	No. of Questions & Marks	Total Marks
Math	50 X 3	150	Math	50 X 4	150
GK (Sc & st)	25 X 2	50	GK (Sc & st)	50 X 2	50
Language	25 X 2	50	Language	25 X 2	50
Intelligence	25 X 2	50	Intelligence	25 X 2	50
	TOTAL	300			400

CLASS VI: MATHS

Total Questions - 50

Max Marks –150

Ser No	Topics	Ser No	Topics
1	Natural Numbers	14	Conversion of Units
2	LCM and HCF	15	Roman Numerals
3	Unitary Method	16	Types of Angles
4	Fractions	17	Circle
5	Ratio and Proportion	18	Volume of Cube and Cuboids
6	Profit and Loss	19	Prime and Composite Numbers
7	Simplification	20	Plane Figures
8	Average	21	Decimal Numbers
9	Percentage	22	Speed and Time
10	Area and Perimeter	23	Operation on Numbers
11	Simple Interest	24	Complementary and Supplementary Angles
12	Lines and Angles	25	Arranging of Fractions
13	Temperature		



CLASS VI: INTELLIGENCE

Total Question – 25

Max Marks - 50

Questions on Intelligence will be based on analogies (mathematical & verbal), pattern (spatial and mathematical), classification, visual, logical, reasoning etc.

CLASS VI: LANGUAGE (ENGLISH)

Total Question – 25

Max Marks - 50

Ser No	Topics	Ser No	Topics
1.	Comprehension Passage	14.	Sentence Formation
2.	Preposition	15.	Antonyms
3.	Article	16.	Synonyms
4.	Vocabulary	17.	Adjectives
5.	Verbs and Type	18.	Interjection
6.	Confusing Words	19.	Idiom and Phrases
7.	Question Tags	20.	Collective Nouns
8.	Types of sentence	21.	Number
9.	Tense forms	22.	Gender
10.	Kinds of Nouns	23.	Adverbs
11.	Kinds of Pronouns	24.	Rhyming Words
12.	Correct Spelling	25.	Singular/Plural
13.	Ordering of words in sentence		



TOPICS COVERED IN CLASS VI: SCIENCE

Ser No	Topics	Ser No	Topics
1.	Plants & Animals	6.	Rocks and Minerals
2.	Living things and non-living things and their Interdependence	7.	Air, water, and weather
3.	Human body	8.	Natural satellite
4.	Diseases	9.	Natural calamities
5.	Food & Nutrition	10.	Environment



TOPICS COVERED IN CLASS VI: GENERAL KNOWLEDGE

Total Question – 25

Max Marks – 50

Ser No	Topics	Ser No	Topics
1.	Different Types of Scientific Devices Used in Daily Life.	15.	Concepts on Mountain Terrain and Lifestyle
2.	Icons and Symbols of India: National Insignia, National Emblem, Sports, Animal etc. Elementary awareness of such symbols)	16.	Historical Monuments
3.	Major Religions of India (Elementary awareness about founder, place of origin, religious books and important ideas)	17.	Shape of Earth and Gravitation (Basic concepts)
4.	Art and Culture (Music, Classical and Folk Dance); Renowned Personalities, Instrumental and Vocal Music, Major Dance Forms	18.	Non-Renewable Energy Sources (Fossil Fuels)
5.	Defence (Equivalent Ranks in three services, Weapons, Aircraft, Missiles & Warships (Elementary awareness)	19.	Food, Culture, Habitat, Languages etc of various regions (Basic concepts)
6.	Sports and Games (India & World). Renowned personalities, major competitions and trophies associated with various games	20.	Names of young ones of different animals
7.	Super Senses (How do plants and animals sense their surroundings)	21.	Functions of Body Parts of Plants and Animals
8.	Relationship between Animals and Human Beings	22.	International Organizations : Basic knowledge about structure, functioning and objectives of United, Nations, World Bank etc.
9.	Taste and Digestion (Basic concepts)	23.	Indian Literary and Cultural Personalities: Names and fields of achievements
10.	Cooking and Preserving Techniques	24.	Indian Literary and Cultural Awards. (Names of the awards and recent recipients)
11.	Germination and Seed Dispersal	25.	Natural Calamities (Flood and Earthquake)
12.	Traditional Water Harvesting Techniques	26.	Evaporation, Condensation and Water Cycle (Basic concepts)
13.	Experiment with Water on Everyday Life	27.	Life of Farmers (Farming techniques)
14.	Water Pollution and Microbial Diseases	28.	Tribal Communities and Forest Produce



TOPICS COVERED IN CLASS IX: MATHEMATICS

Total Questions - 50

Max Marks –200

Ser No	Topics	Ser No	Topics
1.	Rational Numbers	16.	Average, Median, Mode
2.	Linear Equations in One Variable	17.	Probability
3.	Understanding Quadrilaterals	18.	Pie Chart
4.	Data Handling (Bar Graph and Line Graph)	19.	Direct & Inverse Proportions
5.	Squares and Square Roots	20.	Factorizations
6.	Cubes and Cube Roots	21.	Introduction to Graph
7.	Comparing Quantities (Percentage, Profit and Loss)	22.	Unitary Method
8.	Algebraic Expressions and Identities	23.	Divisibility Exam
9.	Area and Perimeters	24.	Triangles (Angle Sum Property)
10.	Volumes and Surface Areas	25.	Parallel Lines
11.	Exponents and Powers	26.	Simple Interest and Compound Interest
12.	Playing with Numbers	27.	Time and Work
13.	Visualizing Solid Shapes	28.	Area and Perimeter of Circles
14.	Triangles (Pythagoras Theorem)	29.	Algebraic Expression (Addition, Subtraction, Multiplication, Division)
15.	Euler's Formula		



TOPICS COVERED IN CLASS IX: INTELLIGENCE

Total Question – 25

Max Marks – 50

Questions on Intelligence will be based on analogies (mathematical & verbal), pattern (spatial and mathematical), classification, visual, logical, reasoning etc.

TOPICS COVERED IN CLASS IX: ENGLISH

Total Question – 25

Max Marks – 50

Ser No	Topics	Ser No	Topics
1.	Spotting Errors	17.	Sentence Improvement
2.	Comprehension Passage	18.	Change of sentence as directed
3.	Antonyms	19.	Sentence Formation
4.	Synonyms	20.	Types of Sentences
5.	Prepositions	21.	Phrase and Clauses
6.	Articles	22.	Kinds of Noun
7.	Types of Verbs	23.	Adjectives
8.	Tense Form	24.	Interjection
9.	Narration	25.	Question Tags
10.	Voices	26.	Adverbs
11.	Modals	27.	Conjunctions
12.	Confusing Words	28.	Conditions
13.	Subject- Verb Agreement	29.	Comparison of Adjectives
14.	Correct Spellings	30.	Personal Pronoun
15.	Order of words in a sentence	31.	Change of Gender
16.	Idioms and Phrases	32.	Change of Number



TOPICS COVERED IN CLASS IX: GENERAL STUDY

Total Question – 25

Max Marks – 50

Ser No	Topics	Ser No	Topics
1.	Revolt of 1857	20.	Interior of Earth
2.	Freedom Fighters	21.	Climate Change
3.	Important Freedom Movements	22.	Earthquakes and Major Land Forms
4.	Social and Caste Reforms	23.	Types of Rainfall
5.	Resources and sustainable development	24.	Major Grasslands
6.	Rock cycle of water cycle	25.	Types of Forests
7.	Pressure and Wind System	26.	Means of Transport
8.	Land Soil and Water Resources	27.	Communication
9.	Minerals and Power Resources	28.	Life in deserts
10.	Indian Constitution and Secularism	29.	Panchayat System
11.	Importance of Parliament	30.	Local Self Government
12.	Types of Agriculture	31.	Law and Social Justice.
13.	Types of Government and different tiers of Government	32.	Judiciary and Criminal Justice System
14.	Understanding Markets	33.	Marginalisation
15.	Elections	34.	Public Facilities
16.	Role of Government in Health	35.	Natural Vegetation and Wildlife
17.	Delhi Sultanate	36.	Industries
18.	Mughals	37.	Human Resources
19.	Bhakti and Sufi Movement	38.	Changes in the Arts



TOPICS COVERED IN CLASS IX: SCIENCE

Total Question – 25

Max Marks – 50

Ser No	Topics	Ser No	Topics
1.	Fossil Fuel: Coal and Petroleum	14.	Micro-Organisms
2.	Combustion and Flame	15.	Some Natural Phenomenon
3.	Cell Structure and Function	16.	How to find the calorific value of fuel?
4.	Reproduction in Plants and Animals	17.	Electroplating and Artificial Jewellery
5.	Force, Friction, and Pressure	18.	Relation between types of friction.
6.	Sound and its basics	19.	Cropping Seasons
7.	Reflection and Dispersion of Light	20.	Agricultural Practices
8.	Metals and Non-Metals	21.	Conservation of Plants and Animals
9.	Synthetic Fibres and Plastics	22.	Biosphere Reserves, National Parks and Sanctuaries (Types of Forests)
10.	Chemical Effects of Electric Current	23.	Reaching the Age of Adolescence
11.	Stars and Solar Systems	24.	Changes during Puberty
12.	Pollution of Air and Water	25.	Endocrine Glands and Hormones
13.	Global Warming		

CAVALRY DEFENCE ACADEMY