

# SYLLABUS

## MATHEMATICS

Total Question : 50

Max Marks : 200

SN	Topic	SN	Topic
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		

## ENGLISH

Total Question : 25

Max Marks : 50

SN	Topic	SN	Topic
1.	Spotting Errors	9.	Narration
2.	Comprehension Passage	10.	Voices
3.	Antonyms	11.	Modals
4.	Synonyms	12.	Confusing Words
5.	Prepositions	13.	Subject- Verb Agreement
6.	Articles	14.	Correct Spellings
7.	Types of Verbs	15.	Order of words in a sentence 31 Change of Gender
8.	Tense Form		

16.	Idioms and Phrases 32 Change of Number	24.	Interjection
17.	Sentence Improvement	26.	Adverbs
18.	Change of sentence as directed	25.	Question Tags
19.	Sentence Formation	27.	Conjunctions
20.	Types of Sentences	28.	Conditions
21.	Phrase and Clauses	29.	Comparison of Adjectives
22.	Kinds of Noun	30.	Personal Pronoun
23.	Adjectives		

## GENERAL SCIENCE

Total Question : 25

Max Marks : 50

SN	Topic	SN	Topic
1.	Fossil Fuel: Coal and Petroleum	13.	Global Warming
2.	Combustion and Flame	14.	Micro-Organisms
3.	Cell Structure and Function	15.	Some Natural Phenomenon
4.	Reproduction in Plants and Animals	16.	How to find calorific value of fuel?
5.	Force, Friction and Pressure	17.	Electroplating and Artificial Jewellery
6.	Sound and its basics	18.	Relation between types of friction.
7.	Reflection and Dispersion of Light	19.	Cropping Seasons
8.	Metals and Non Metals	20.	Agricultural Practices
9.	Synthetic Fibres and Plastics	21.	Conservation of Plants and Animals
10.	Chemical Effects of Electric Current	22.	Biosphere Reserves, National Parks and Sanctuaries
11.	Stars and Solar Systems	23.	Reaching the age of Adolescence
12.	Pollution of Air and Water	24.	Changes during Puberty
25.	Endocrine Glands and Hormones		

## SOCIAL SCIENCE

Total Question : 25

Max Marks : 50

SN	Topic	SN	Topic
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

## 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.