

RAJA RAMMOHAN ROY ACADEMY
SYLLABUS FOR ANNUAL EXAMINATION
CLASS VI

	ENGLISH LANGUAGE
Chapter 16	Direct and Indirect speech
Chapter 17	The Sentence
Chapter 18	Subject and Predicate
Chapter 20	Antonyms
Chapter 21	Synonyms
Chapter 22	Homonyms
Chapter 23	Similes
Chapter 24	Idioms
	MATHEMATICS
	Simple Linear Equations
	Unitary Method
	Fractions
	Decimal fractions
	Speed, Decimal and Time
	Substitution
	Framing Algebraic Expressions
	Properties of lines and angles
	Triangles
	Quadrilaterals
	Polygons
	The Circles
	Symmetry
	Perimeter and Area of Plane figures
	Data Handling
	HISTORY & CIVICS
Ls 1(b)	The River Valley Civilizations – II
Ls 4	The Rise of Kingdoms & Republicans
Ls 5	The Mauryan Empire
Ls 6	The Gold Age – Gupta Empire
	SECTION B
Ls 2	Urban Local Self – Government

	ENGLISH LITERATURE (PROSE)
Chapter 8	Resting Hill
Chapter 9	The Mask
Chapter 10	Brighter Still
Chapter 12	The Canterville Ghose
	POETRY
	The Fountain
	Vocation
	Cows on the Breach
	GENERAL SCIENCE
	Simple Machines
	Magnetism
	Water
	Air
	Rock and Minerals
	Soil
	Health and Hygiene
	Our Environment
	GEOGRAPHY
Chapter 3	Land Forms
Chapter 4	Water bodies
Chapter 6	Minerals
Chapter 8	South America
	Map – South America
	COMPUTER
Chapter 6	Microsoft Excel 2007
Chapter 7	Editing a worksheet
Chapter 10	Introduction to Q Basic
Chapter 11	Q Basic Statements
Chapter 12	Surfing Internet

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	ENGLISH LANGUAGE
Chapter 16	Direct and Indirect Speech
Chapter 17	The Sentence
Chapter 18	Subject and Predicate
Chapter 20	Antonyms
Chapter 21	Synonyms
Chapter 22	Homonyms
Chapter 23	Similes
Chapter 24	Idioms
	MATHEMATICS
	Mensuration
	Unitary Method
	Percentages
	Simple Interest
	Congruency
	Pythagoras Theorem
	Data Handling
	Probability
	Profit, Loss & Discount
	HISTORY & CIVICS
Ls 5	The Vijaynagar and Bahmani Kingdoms
Ls 6	The Mughal Empire – I
Ls 7	The Mughal Empire – II
Ls 8	Making of Composite Culture
	CIVICS
Ls 2	Directive Principles of State Policy
	COMPUTER
Chapter 8	Graphics in Q Basic
Chapter 9	Looping Statements
Chapter 10	Surfing net and e-mail
Chapter 11	The Virus

	ENGLISH LITERATURE (PROSE)
Chapter 8	My Unknown Friend
Chapter 9	Everest Reactions
Chapter 10	His First Flight
Chapter 11	Zero House
	POETRY
	Break, Break, Break
	Wandering Singers
	Lobster Quadrille
	PHYSICS
Chapter 4	Light Energy
Chapter 5	Heat
Chapter 6	Sound
Chapter 7	Electricity & Magnetism
	CHEMISTRTY
	Atomic Structure
	Metals and Non-Metals
	Air and Atmosphere
	BIOLOGY
	Excretion in humans
	Nervous system
	Allergy
	GEOGRAPHY
Chapter 3	Weather and Climate
Chapter 4	Weathering and Soil Formation
Chapter 5	Industries
Chapter 8	Africa
Chapter 9	Australia

RAJA RAMMOHAN ROY ACADEMY
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CLASS IX

	ENGLISH LANGUAGE		ENGLISH LITERATURE (PROSE)
	Composition		Chief Seattle's Speech
	Letter – Formal & Informal		Old Man at the Bridge
	Notice Writing		A Horse and two Goats
	E-mail writing		Hearts and Hands
	Comprehension		A Face in the Dark
	Preposition		My Greatest Olympic Prize
	Conjunction		POETRY
	Transformation		Heart of a Tree
	MATHEMATICS		Cold Within
	Rational & Irrational Numbers		Bangle Sellers
	Compound Interest		After Blenheim
	Expansions		Television
	Factorization		Daffodils
	Simultaneous Linear Equations		PHYSICS
	Problems on Simultaneous Linear Equations		Propagation of Sound Waves
	Indices		Current Electricity
	Logarithms		Magnetism
	Trigonometrical Ratios of Standard angles		Force
	Triangles		Work, Power & Energy
	Mid Point Theorem		Laws of Motion
	Pythagoras Theorem		Heat and Energy
	Rectilinear Figures		Reflection of Light
	Circles		CHEMISTRY
	Mensuration		Whole Book of Class – IX
	Trigonometrical Ratios		The Periodic table & Periodic Properties – Class X
	Co-ordinate Geometry		Chemical Bonding – Class X
	Statistics		GEOGRAPHY
	BIOLOGY	Chapter 1	The Earth as a Planet
	Cell	Chapter 2	Geographic Grid
	Tissues	Chapter 3	Motion of the Earth (Rotation and Revolution)
	Seeds	Chapter 4	Structure of Earth
	Nutrition	Chapter 5	Land forms of Earth
	Digestive system	Chapter 6	Rocks
	Skeleton	Chapter 7	Volcanoes
	Respiratory system in animals	Chapter 8	Earthquakes
	Hygiene	Chapter 9	Weathering and Denudation
	Diseases	Chapter 10	The Hydrosphere (Tides and Ocean current)
	Aids to health	Chapter 11	The Atmosphere
	Health Organizations	Chapter 12	The Insolation
	Waster generation and Management	Chapter 13	Pressure Belts and types of winds
	Structure of Chromosome and Cell division - X	Chapter 14	Humidity
	HISTORY & CIVICS	Chapter	Climate of India
Ls 1	First War of Independence	Chapter	Soils in India
Ls 2	Factors to the Growth of Nationalism	Chapter	Natural vegetation of India
Ls 3	Early Nationalist		Map - India
Ls 4	National Movement Second Phase		HOME SCIENCE
Ls 7	Muslim League		Food Preparation
Ls 8	National Movement during First World War		Growth and development of children
Ls 9	National Movement 1919-34		Fabrics available in the market
Ls 10	The Chipps Mission and the Quit India		Clothes are second skin
	CIVICS		Storage and preservation of food
Ls 5	The Union Parliament		Laundering, laundering materials
Ls 6	The Union Executive – I		Consumer education
Ls 11	The Union Executive – II		Food Adultration
Ls 12	The Union Judiciary		
	ECONOMICS		
	Basic Economic Entities in an Economy		
	Basic Problem of an Economy		
	Types of Economies		
	Main sectors of Indian Economy : Agriculture		
	Main Sectors of Indian Economy : Industry		
	Main Sectors of Indian Economy : Services		
	Other Sectors of Indian Economy		
	Economic Infrastructure		
	Social Infrastructure		
	Consumer Awareness		
	Globalization		

CLASS IX COMPUTER APPLICATION

1. General Concept of OOP : Features of Object Oriented Programming : Features of Object Oriented Programming, Basic Elements of OOP, Objects, classes, Attribute, Encapsulations, Inheritance and Polymorphism
2. History and Development of Java : Basic features of Java, Compiler and Interpreter, Byte code & JVM, Java Libraries in JDK, Java reserve Words
3. Character set of Java : Java Character set , Java Tokens, Types of Tokens, Data Types in Java, Variables & Constants, Primitive Data types (Atomic data types), Simple structure of java program and simple java programming,
4. Operators and Expressions in Java : Operators and Types of Operators (Unary, Binary & Ternary Operators), Arithmetic operators, Relational and Logic Operators, Java Programming based on arithmetic operators, Initialization and Dynamic initialization.
6. Expressions : Types of expressions (Arithmetic, relational and logical expressions), Types Conversions, Explicit & Implicit type conversion, Order of evaluation in Java, Assignments and shortcut assignment operators.
7. Conditional Statements : Syntaxes and uses of If statement, if – else-if statement, Nested if statement, Java Programming based on above conditional statements .
8. Switch Statement:- Syntax and use of switch Statement, Nested switch statement, conditional statement (? :)as alternative of if-else and Java Programming based on above conditional statements.
9. Looping / Iteration Statements : Types of loops & parts of loop, (for loop, do-while loop and while loop), Java Programming based on looping statements.
10. Java Programming Based on Looping statements, Format printing, generate number series, Prime number, Armstrong number, special number, Perfect number, Factorial number, sum of different series etc.
11. Nested loops Java Programming based on looping statements.

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CLASS XI**

	ENGLISH LANGUAGE
	Composition
	Report writing
	Comprehension
	Prepositions
	Words followed by Prepositions
	Conjunctions
	Transformations
	MATHEMATICS
	Sets
	Relations and Functions
	Angles and Arc length
	Trigonometrical functions
	Compound and Multiple Angles
	Mathematics Induction
	Complex Numbers
	Quadratic Equations
	Prmutations and Combinations
	Binomial Theorem
	Sequence and Series
	Basic concepts of Points and their coordinate
	The straight line
	Circle
	Limits
	Differentiation
	Measures of Central Tendency
	Measures of Dispersion
	Probability
	SECTION B
	Parabola
	Ellipse
	Hyperbola
	Points and their coordinates in 3 – Dimensions
	SECTION C
	Statistics
	Correlation Analysis
	Index Numbers
	Moving Average
	CHEMISTRY
	Structure of Atom
	Classification of Elements and Periodicity
	Chemical Bonding
	States of Matter – Gases and Liquids
	Chemical Thermodynamics
	Equilibrium
	Redox Reaction
	S- block and p – block elements
	Coordination Chemistry (Class XII)
	HISTORY
	Protest Movements against Colonial Rule
	Gandhian Nationalism
	Towards Independence and Partition 1.1,1.21,1.3 (XII)
	The Great Depression
	Rise of Commission
	Rise of Fascism
	Rise of Nazism
	Rise of Militarism
	COMMERCE
	Forms of business organizations
	Social responsibility of business and business ethics
	Emerging mode of business
	Trade and inland trade
	Foreign trade
	Insurance
	Business environment
	Capital – Fixed and working
	Sources of finance for a joint stock company
	Banking
	ACCOUNTS
	Accounting Cycle : Journal
	Accounting cycle : Ledger
	Accounting cycle : Trial Balance
	Sub-Division of Journal : cash book
	Sub-Division of Journal : Special Purpose Subsidiary Books
	Bank Reconciliation Statements
	Depreciation accounting
	Bills of Exchange (only basic question)

	ENGLISH LITERATURE (PROSE)
	Salvatore
	Fritz
	Quality
	To Build a Fire
	The Story of an Hour
	The Chinese Statue
	POEMS
	The Gift of India
	John Brown
	The Spider and the fly
	We are the Music Makers
	The Darkling Thrush
	PHYSICS
	Units
	Errors Analysis
	Significant figures
	Dimensional Analysis
	Motion in a plane Vectors
	Projectile Motion
	Friction
	Uniform Circular motion
	Work, Power and Energy
	Centre of Mass
	Rotational Motion of a Rigid body – Moment of Inertia
	Gravitation : Planets and Satellites
	Elasticity
	Flow of Liquids: Viscosity
	Surface Tension
	Behaviour of Perfect Gas and Kinetic Theory of Gases
	Simple Harmonic Motion and Waves
	Superposition of Waves: Interference and Beats
	Doppler Effect
	Electric Charges and fields
	Gauss' Theorem
	BIOLOGY
	Biological classification
	Kingdom Monera
	Kingdom Protista
	Kingdom Fungi
	Virus
	Algae
	Bryophytes
	Gymnosperms
	Flowering Plants
	Animal Kingdom – Cockroach
	Digestion
	Respiration
	Body fluids & Circulation
	Excretory products & elimination
	Skeletal system
	Neural control
	Chemical co-ordination & Integration
	Plant Physiology
	Cell Physiology
	HOME SCIENCE
	Malnutrition
	Diet
	Meal Planning
	Human development (Adolescent)
	Textile and clothing (Laundry, fabrics available in the market, clothes are our second skin)
	Consumer Education
	Food Preservation
	ECONOMICS
Chapter 2	Basic concepts of Economics
Chapter 3	Basic Problems of an Economy
Chapter 7	Economics growth ad development
Chapter 8	Parameters of development
Chapter 9	Sustainable development
Chapter 10	Planning and economic development in India
Chapter 11	Structural changes in the Indian Economy after Liberalization
Chapter 12	The problem of Poverty in India
Chapter 13	Profile of Indian Agriculture
Chapter 14	Human capital formation in India
Chapter 15	Employment and unemployment in India
Chapter 17	Definition, scope, importance and limitations of statistics
Chapter 19	Measures of central value

ACCOUNTS		ECONOMICS	
	Capital and Revenue Expenditure/Income	Chapter 20	Measures of dispersion
	Accounting Cycle : Final Accounts without Adjustments	Chapter 21	Correlation
	Final Accounts with Adjustments	Chapter 22	Index Number
	Accounts from Incomplete Records (only selected theory)	Class XII	Demand of Law of Demand
	Accounts of Non-Trading Organization (only selected theory)		Elasticity of Demand
	Rectification of Error (only basic question)		Supply – Law of Supply of Price Elasticity of Supply
	Computer, Computerized Accounting System and Accounting Information System (only selected theory)		
	Comparative and Common Size Financial Statements – (XII)		
	Partnership fundamental (Class XII)		

CLASS XI COMPUTERSCIENCE

- 1 **Number System:** Decimal, Binary Octal and Hexa-Decimal, Inter conversion between (Binary, Octal, Decimal and Hexa-Decimal no, systems), Binary addition, subtraction and multiplication, addition of Octal numbers and Hexa-Decimal numbers; Computer system – CP,CU,ALU, Memory units, Register and types of Registers, Micro processors.

- 2 **Propositional Logics, Propositional Logical Operators** (AND,OR,IF-THEN and IF and ONLY IF, negation), Laws of Propositional Logics, Truth Tables and Proving Propositional laws using truth table.

- 3 **Boolean Algebra,** Basic law of Boolean Algebra, Basic Gates (AND,OR and NOT), Universal gates (NAND and NOR), XOR and XNOR, NAND and NOR as universal gates, Simulate the function of basic gates using universal gates, NAND TO NAND Logic and NOR TO NOR Logic; Introduction to Java, Character set, Tokens, Data types,
Java Programming :-Operators, constants, variables and simple Java programming, Review of Java Programming from class X

- 4 **Operators in JAVA** Types of Operators and Types of Operators, Expression and Types of Expressions (Arithmetic, Relational and Logical expressions), Types of conversion, Java Programming

- 5 **Flow of Control,** Programming constructs (Sequence, Selection and Iteration constructs), Java Statements based on Selection construct statement if, if-else, if-else-if, switch & Java Programming.

- 6 **Loops (Iteration Construct):** Types of loops (Entry controlled and Exit controlled Loops), Part of loop, Nested loops and Jump statements (break and continue) break and continue with labels, Java Programming based on loops

- 7 **Functions/Methods:** Function, Types of functions, Part of Functions, Function overloading, Constructors, Types of Constructors and Constructor overloading, using library classes

- 8 **Classes in Java,** classes as composite data type, classes as user defined type, creating and using objects.
Character Functions, String functions, functions of Math class, Programming based on functions

- 9 **Array**single and double dimension arrays, searching, sorting and types of searching (Sequential and binary) and sorting (Bubble, Selection and Insertion Sort) Printing of 2-D arrays (Matrix) and Transpose matrix, Sum of Rows, sum of columns and diagonals. And sum of all elements.

- 10 **Operations on Files in Java:-**Types of files, creating and accessing of files,.
Data Structures:- Stacks and Queues and application of stacks and Queues. Java programming