

SAINT JOHN'S ACADEMY, ALLAHABAD SYLLABUS 2018-2019 CLASS XII (ISC 2019) NOTE: Preliminary Exam includes the entire years syllabus in all subjects.

	<u>ENGLISH LANGUAGE</u> Book :- ISC English Language Skills for Class XII (Goyal Brothers)
HALF	Compositions:
YEARLY	Descriptive; Argumentative;
March	Short – Story Writing
March	Narrative;
July	Directed Writing
	Description of a Social Event, Testimonial, FIR, Sports Report
April	Book Review, Film Review, Review of a TV show, Theatre Review,
Мау	Article Writing,
July	Writing a speech, Statement of Purpose, Personal Profile.
	Comprehension Passage
	Grammar:
March	1. Agreement of the Verb with the subject; 2. Prepositions; 3.
April	Tenses and their Uses
Мау	4. Transformation of Sentences
July	5. Active and Passive Voice
	6. Direct and Indirect Speech ; 7. Comparison of Adjectives; 8.
	Phrasal verbs
PRELIMS	Compositions:
August	Reflective
	Directed Writing
August	Review of a Cultural Programme,
Sept	Travel Brochure, Crime Report
Oct.	A mishap (Any natural calamity/ accident)
Nov.	Comprehension Passage
	Grammar:
	1. Transformation of Sentences, Prepositions
August	2. Sequence of Tenses
Sept	
Oct.	

	ENGLISH LITERATURE
HALF	The Tempest
YEARLY	Act IV
March –	ISC Echoes
April	A Gorilla in the Guest Room

July July	The Singing Lesson <i>ISC Reverie</i> John Brown Desiderata
March – April March – April July August	Dover Beach The Spider and the Fly
PRELIMS Sept.	The Tempest Act V ISC Echoes
October October	The sound machine B. Wordsworth
Novembe r	We are the music makers
	<u> PHYSICS</u> Book :- ISC Nootan Physics Vol. II (Nageen Prakashan)
HALF YEARLY March April – May July April April May July	 Electrostatics Current electricity Optics - Ray Optics and Wave Optics Dual Nature of radiation and Matter; 5. Atoms and Nuclei Practicals: To find the focal length of a convex lens by u - v method. To find 'f' of a convex lens by displacement method. Finding f of a convex lens by auxillary convex and concave lens. Calculate specific resistance of a sample wire. Demonstration Conversion of galvanometer to ammeter.
PRELIMS August Sept. Oct.	 Magnetic Effects of Current and Magnetism Electromagnetic Induction and Alternating Currents; 3. E.M. Waves Electronic Devices
Nov. August	 4. Electronic Devices 5. Communication Systems. Practicals:
Sept. Oct. Nov.	 Verification of Ohm's law. To compare emf of 2 cells.; Project Determination of internal resistance of 2 cells. Determine refractive index of liquid.
Sept.	1. Study I – V characteristics of semi conductor diodes

	CHEMISTRY
	Book :- ISC Nootan Chemistry Vol. II (Nageen Prakashan)
HALF	
YEARLY	Solid State
March	Solution
March	Surface Chemistry, General principles involved in the isolation of
April	elements
Мау	p – Block elements
July	Coordination Compounds
August	Halo alkanes & halo arenes
August	d and f block elements
	Practicals:-
April	Oxidation – reduction titrations
Мау	Qualitative analysis – For One Cation & one anion ; Project
July	Study of rate of reaction, Identification of compounds & functional
July	groups
	Characteristic test for Carbohydrates and proteins
PRELIMS	
Sept.	Electrochemistry
Oct.	Chemical Kinetics
Oct.	Bio molecules
Oct.	Polymers & Chemistry in everyday life.
Nov.	Alcohol, Phenol and Ethers; Aldehyde, Ketones and Carboxylic acid
Nov.	Organic Compounds containing Nitrogen
	Practicals:-
Sept.	Expts. related to pH and electrochemistry
Nov.	Qualitative analysis – For one cation & one anion

	<u>BIOLOGY</u> Book :- ISC Nootan Biology Vol. II (Nageen Prakashan)
HALF	1 Denveduction
YEARLY	1. Reproduction -
March	(a) Reproduction in organisms
	(b) Sexual reproduction in flowering plants
	(c) Human reproduction
	(d) Reproductive health
	2. Genetics and Evolution -
	(a) Principles of Inheritance and variation
April -	(b) Molecular basis of Inheritance
May	(c) Evolution
litay	3. Biology and Human Welfare-
	(a) Human Health and disease
	(b) Strategies for enhancement in food production.
July	Practicals -
	1 Taxonomy -
	(1) Malyaccao China roco

April	 (ii) Leguminosae - Sweet Pea 2. Biochemical and Physiological Experiment -; Project (I) Stomata of dicot and monocot leaves
May	 (ii) study of soils (iii) Isolate and study D.N.A 3. Slide Preparation - (I) T.S. of overv of flower
July	 (i) 1.5 of ovary of hower (ii) T.S of hydrophyte stem (iii) T.S of xerophyte leaf 4. Spotting - (i) Identification of slides or chart
A m will	Project Work – on any one Topic.
Aprii - May	
August	1. Biology and Human Welfare
August	(a) Microbes in human welfare
Sent	2. Biotechnology and its applications
Sept.	(a) Biotechnology – Principles and process
Oct -	(b) Biotechnology and its applications
Nov	3. Ecology and Environment
140 0.	(i) Ecosystem
	(iii) Biodiversity and its conservation
	(iv) Environmental issues
	Practicals
August	1. Taxonomy -
August	(I) Solanaceae – petunia
	(II) LIIIaceae - onion
Sent	(1) effect of enzymes
Sept.	3. Slide Preparation -
Oct	(I) L.S of monocot and dicot seed
UCL.	(ii) Germination of Pollen Grains
	4. Ecological Adaptations
Nov	5. Adaptation to Pollination
140 V.	

	<u>MATHEMATICS</u> Book :- ISC Mathematics For Class XII By M.L. Agarawal (APC)
HALF	Sec. A
YEARLY	1.Matrices; 2. Determinants
March	3. Relations and Functions
April	4. Inverse Trigonometric Functions;
Мау	5. Calculus : Continuity and Differentiability
July	Sec. B
	Vectors
April	
PRELIMS	Section A
August	7. Calculus : Application of Derivatives

Sept.	8. Calculus : Integrals
Oct.	9. Calculus : Differential Equations
Nov.	10. Probability
	Section B
August	2. Three Dimentional geometry
Sept.	3 Applications of Integrals

	ACCOUNTS Book :- ISC Accounts Class XII By D.K. Goel (Avichal
	Publications)
HALF	
YEARLY	1. Fundamentals of Partnership
March	2. Goodwill
April	3. Admission of partner
April -	4. Retirement of Partner
Мау	Project 1
July	
PRELIMS	
August	5. Death of Partner; 6. Dissolution of partnership
Sept.	7. Issue of shares; 8. Issue of debentures
Oct.	9. Redemption of Debentures; 10. Final Accounts of Companies
Nov.	11. Cash flow statement; 12. Ratio Analysis
	13. Comparative Balance Sheet & Income statement
	14. Common size statement; 15. Financial Statement Analysis
	Project 2
PROJECT	1. Preparation of Final accounts of partnership firm.
S	2. Preparation of cash flow statement.
(Two	3. Preparation of common size statement of Companies.
projects)	4. Taking unaudited results of company & discussing of few ratios.
May &	
Sept.	

	ECONOMICS
	Book :- Frank ISC Economics Xii (Frank Bros.)
HALF	
YEARLY	1. Demand and Law of Demand; 2. Theory of Consumer's
March	Behaviour; 3. Elasticity of Demand
April	4. Supply - Law of Supply and Price Elasticity of Supply; 5. Theory
Мау	of income and employment
July	6. Money and Banking; Project 1
	7. Balance of Payments and Exchange Rate; 8. Fiscal Policy; 9.
	Government Budget; 10. Forms of Market
PRELIMS	

August	1.Market Mechanism; 2. Laws of return
Sept.	3. Cost and Revenue ; Project 2
Oct.	4. Producers equilibrium
Nov.	5. Determination of equilibrium price and output under perfect
	competition; 6. National Income
	Circular Flow
	National Income Aggregates
	Methods of measuring national Income.

	<u>COMMERCE</u> Book :- ISC Commerce For Class XII (S. Chand)
HALF YEARLY March April April - May July	 Business Environment; 2. Capital – Fixed & Working Sources of finance for a joint stock company; 4. Banking - Latest Trends Marketing Concepts and Functions; Project 1 Marketing Mix; 7. Consumer Protection
PRELIMS August Sept. Oct. Nov.	 Management - Meaning, Nature & Importance; 2. Principles of management Planning & Coordination; 4. Organising; Project 2 Staffing; 6. Directing Controlling

	<u>POLITICAL SCIENCE</u> Book :- ISC Political Science XII (K.K. Ghai) Kalyani Publications
HALF	
YEARLY	1. Forms of Government
March	2. Constitution
April	3.Indian Constitution
July	4. Fundamental Rights and Directive Principles
July	Project
PRELIMS	
August	5. The Executive
Sept.	6. The Judiciary
Sept.	7. Franchise and Representation
Oct.	8. The Legislature
Oct.	9. Local self – government
Nov.	10. Democracy in India – a perspective of the challenges faced.

	HISTORY
	Book :- ISC History Class XII (Kalyani Publishers)
HALF	Section A
YEARLY	1. Towards Independence and Partition
March	2. Establishment and development of Indian democracy
March	3. Challenges to Indian democracy
April	Section B
	7. World War II
July	8. De-colonisation in Asia and Africa
July	9. Cold War
July	Project
PRELIMS	
August	Section A
Sept.	4. Changing face of the Indian democracy
Sept.	5. India's Foreign Policy
Oct.	6. Movements for Women's Rights
Oct.	Section B
Nov.	10. Protest Movements
	11. Middle East: Isralie – Palestine conflict

	COMDUTER SCIENCE
	Book :- ISC Computer Science (Dhanpat Rai and Co.
	Publications)
HALF	
YEARLY	Boolean Algebra; Computers Hardware;
March	Implementation Of Algorithms to Solve Problems; Programming in
April	Java; Objects;
Мау	Inheritance and Polymorphism
July	Exception Handling; Primitive Values, Wrapper Classes, Variable
	Classes And Types and Casting;
	Expression;
	Programming assignments
PRELIMS	
August	Statements & Their Scope; Functions;
Sept.	Arrays, Strings; Files; Data Structures;
Oct.	Complexity and Big O notation
Nov.	Implementation of algorithms
	Programming assignments
	HINDI
HALF	1 vk'kk < + dk ,d fnu
YEARLY	(i) f}rh: vad
March	$2 \text{ xn} \sim : \text{ ladyu}$
	(i) nklh $\frac{1}{t}$ "kadi izlkn ¹ / ₂
March	(i) $\Gamma(i) = \frac{1}{4}$, $R(i) = \frac{1}{4}$
April	(ΙΙ) D;κτυjκ κ gqvκτκ,\ 74gικjn izikn

May/ July $n \sim foosnh\frac{1}{2}$ ¹/₄eaknsoh oekZ¹/₂ (iii) HkfDru 3 dkO; eatih April (i) rgylhnkl ds in $\frac{1}{4}$ rgylh nkl $\frac{1}{2}$ July (ii) tkx ra>dks nwi tkuk aS ¹/₄egknsoh July oekZ¹/₂ April May ¹/₄ike/kkih flag fnudj¹/₂ (iii) mn~;eh uj July 4 fucU/k&HkkokRed] April fopkikRed] o.kZukRed] lelkef:dA April vifBr x|ka"k 5 July O;kdj.k& 6 (i) okD; "kq) djsaA (ii) eqgkojs& vFkZ ,oa okD; iz;ksxA PRELIMS vk'kk<+ dk .d fnu 1 August (i) r`rh; vad 2 xn~: ladvu Sept. (i) $laLd^{T} D;k gS \ \frac{1}{4} jke/kkjh flag fnudj\frac{1}{2}$ Nov. ¹/₄eUuw HkaMkih¹/₂ (ii) etcwih 3 dkO; eatih Sept. (i) ckny dks f?kirs ns[kk aS $\frac{1}{4}$ ukxktaZu $\frac{1}{2}$ Oct. - Nov. (ii) v_j/ksjs dk nhid $\frac{1}{4}$ gfjoa"kjk; cPpu $\frac{1}{2}$ August fucU/k&dgkuh ij vk/kkfjr] 4 Nov. lwfDr:ksa ii1 Oct. August vk;[kksa ns[khA vifBr x|ka"k 5 O;kdj.k& Sept. 6 Oct. (i) eqgkojs& vFkZ ,oa okD; iz;ksxA (ii) okD; "kq) djsaA END