



SAINT JOHN'S ACADEMY, ALLAHABAD
SYLLABUS 2017-2018
CLASS XII (ISC 2018)

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

	<p><u>ENGLISH LITERATURE</u></p>
HALF YEARLY	<p><i>Much Ado About Nothing:</i> Act IV Scene 1, 2; Act V Scenes 1, 2, 3 <i>ISC Collection of Short Stories:</i> A Real Durwan, The Lumber Room, The Legend of Sleepy Hollow; <i>ISC Collection of Poems:</i> Five ways to kill a man; Phenomenal Woman</p>

PRELIMS	<p><i>Much Ado About Nothing:</i> Act V , Scene 4</p> <p><i>ISC Collection of Short Stories :</i> One Thousand Dollar</p> <p><i>ISC Collection of Poems:</i> Breaking out; Father returning home</p>
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	<p><u>PHYSICS</u> <i>Book :- ISC Nootan Physics Vol. II (Nageen Prakashan)</i></p>
HALF YEARLY	<p>1. Electrostatics 2. Current electricity 3. Optics – Ray Optics and Wave Optics 4. Dual Nature of radiation and Matter; 5. Atoms and Nuclei Practicals: 1. To find the focal length of a convex lens by u – v method. 2. To find 'f' of a convex lens by displacement method. 3. Finding f of a convex lens by auxillary convex and concave lens. 4. Calculate specific resistance of a sample wire. Demonstration 1. Conversion of galvanometer to ammeter.</p>
PRELIMS	<p>1. Magnetic Effects of Current and Magnetism 2. Electromagnetic Induction and Alternating Currents; 3. E.M. Waves 4. Electronic Devices 5. Communication Systems. Practicals: 1. Verification of Ohm's law. 2. To compare emf of 2 cells.; Project 3. Determination of internal resistance of 2 cells. 4. Determine refractive index of liquid. Demonstration: 1. Study I – V characteristics of semi conductor diodes</p>

	<p><u>CHEMISTRY</u> <i>Book :- ISC Nootan Chemistry Vol. II (Nageen Prakashan)</i></p>
HALF YEARLY	<p>Solid State, Solution Surface Chemistry, General principles involved in the isolation of elements p – Block elements Identification of functional groups; Coordination Compounds Halo alkanes & halo arenes; Bio molecules Polymers & Chemistry in everyday life. Practicals:-</p>

	<p>Oxidation – reduction titrations Qualitative analysis – For One Cation & one anion ; Project Study of rate of reaction Characteristic test for Carbohydrates and proteins</p>
PRELIMS	<p>Electrochemistry and Chemical Kinetics d and f block elements, Alcohol, Phenol and Ethers; Aldehyde, Ketones and Carboxylic acid Organic Compounds containing Nitrogen Expts. related to pH and electrochemistry Practicals:- Oxidation – reduction titration Qualitative analysis – For one cation & one anion</p>

	<p><u>BIOLOGY</u> <i>Book :- ISC Nootan Biology Vol. II (Nageen Prakashan)</i></p>
HALF YEARLY	<p>1. Reproduction - (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 (b) Molecular basis of Inheritance (c) Evolution 3. Biology and Human Welfare- (a) Human Health and disease (b) Strategies for enhancement in food production. Practicals - 1. Taxonomy - (I) Malvaceae – China rose (ii) Leguminosae – Sweet Pea 2. Biochemical and Physiological Experiment -; Project (I) Stomata of dicot and monocot leaves (ii) study of soils (iii) Isolate and study D.N.A 3. Slide Preparation - (I) T.S of ovary of flower (ii) T.S of hydrophyte stem (iii) T.S of xerophyte leaf 4. Spotting - (I) Identification of slides or chart Project Work – on any one Topic.</p>
PRELIMS	<p>1. Biology and Human Welfare (a) Microbes in human welfare 2. Biotechnology and its applications (a) Biotechnology – Principles and process (b) Biotechnology and its applications 3. Ecology and Environment (I) Organisms and population</p>

	(ii) Ecosystem (iii) Biodiversity and its conservation (iv) Environmental issues Practicals 1. Taxonomy - (I) Solanaceae - petunia (ii) Liliaceae - onion 2. Biochemical and Physiological Experiment - (I) effect of enzymes 3. Slide Preparation - (I) L.S of monocot and dicot seed (ii) Germination of Pollen Grains 4. Ecological Adaptations 5. Adaptation to Pollination
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	<u>MATHEMATICS</u> <i>Book :- ISC Mathematics For Class XII By M.L. Agarawal (APC)</i>
HALF YEARLY	<u>Sec. A</u> 1. Matrices; 2. Determinants 3. Relations and Functions 4. Inverse Trigonometric Functions; 5. Continuity and Differentiability; 6. Indeterminate Forms <u>Sec. B (for 12 A)</u> Vectors OR <u>Sec. C (for 12 B)</u> Linear Regression
PRELIMS	<u>Section A</u> 7. Application of Derivatives 8. Integrals 9. Differential Equations 10. Probability <u>Section B (for 12 A)</u> 2. Three Dimensional geometry 3 Applications of Integrals OR <u>Section C (for 12 B)</u> 1. Application of Calculus in Commerce and Economics 3. Linear Programming

	<u>ACCOUNTS</u> <i>Book :- ISC Accounts Class XII By D.K. Goel (Avichal Publications)</i>
HALF YEARLY	1. Fundamentals of Partnership 2. Goodwill

	3. Admission of partner 4. Retirement of Partner;
PRELIMS	5. Death of Partner; 6. Dissolution of partnership 7. Issue of shares; 8. Issue of debentures 9. Redemption of Debentures; 10. Final Accounts of Companies 11. Cash flow statement; 12. Ratio Analysis
PROJECTS (Two projects) May & Sept.	1. Preparation of Final accounts of partnership firm. 2. Preparation of cash flow statement. 3. Preparation of common size statement of Companies. 4. Taking unaudited results of company & discussing of few ratios.

	<u>ECONOMICS</u> Book :- Frank ISC Economics XII (Frank Bros.)
HALF YEARLY	1. Demand and Law of Demand; 2. Theory of Consumer's Behaviour; 3. Elasticity of Demand 4. Supply - Law of Supply and Price Elasticity of Supply; 5. Theory of income and employment 6. Money and Banking; Project 7. Balance of Payments and Exchange Rate; 8. Fiscal Policy; 9. Government Budget; 10. Forms of Market
PRELIMS	1. Market Mechanism; 2. Laws of return 3. Cost and Revenue ; Project 4. Producers equilibrium 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	1. Business Environment; 2. Capital - Fixed & Working 3. Sources of finance for a joint stock company; 4. Banking - Latest Trends 5. Marketing Concepts and Functions; Project 6. Marketing Mix; 7. Consumer Protection
PRELIMS	1. Management - Meaning, Nature & Importance; 2. Principles of management 3. Planning & Coordination; 4. Organising; Project 5. Staffing; 6. Directing 7. Controlling

	COMPUTER SCIENCE Book :- ISC Computer Science (Dhanpat Rai and Co. Publications)
HALF YEARLY	Boolean Algebra; Computers Hardware; Implementation Of Algorithms to Solve Problems; Programming in Java; Objects; Inheritance and Polymorphism Exception Handling; Primitive Values, Wrapper Classes, Variable Classes And Types and Casting; Expression; Project/ Assignment
PRELIMS	Statements & Their Scope; Functions; Arrays, Strings; Files; Data Structures; Complexity and Big O notation Implementation of algorithms

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HALF YEARLY	<p>1 vk'kk<+ dk ,d fnu (i) f}rh; vad</p> <p>2 xn~; ladyu (i) nklh ¼t; "kadj izlkn½ (ii) D;k fujk" k gqvk tk,\ ¼gtkjh izlkn n~foosnh½ (iii) Hkfdru ¼egknsok oekZ½</p> <p>3 dkO; eatjh (i) rqylhnkl ds in ¼rqylh nkl½ (ii) tkx rq>dks nwj tkuk gS ¼egknsok oekZ½ (iii) mn~;eh uj ¼jke/kkjh flag fnudj½</p> <p>4 fucU/k&HkkokRed] fopkjkRed] o.kZukRed] lelkef;dA</p> <p>5 vifBr x ka" k</p> <p>6 O;kdj.k& (i) okD; "kq) djsaA (ii) eqgkojs& vFkZ ,oa okD; iz;ksxA</p>
PRELIMS	<p>1 vk'kk<+ dk ,d fnu (i) r` rh; vad</p> <p>2 xn~; ladyu</p>

	(i) laLd`fr D;k gS\ ¼jke/kkjh flag fnudj½ (ii) etcwjh ¼eUuw HkaMkj½
3	dkO; eatjh (i) ckny dks f?kjrs ns[kk gS ¼ukxktqZu½ (ii) vj/ksjs dk nhid ¼gfjoa”kjk; cPpu½
4	fucU/k&dgkuh ij vk/kkfjr] lwfDr;ksa ij] vkj[kksa ns[khA
5	vifBr x ka”k
6	O;kdj.k& (i) eqgkojs& vFkZ ,oa okD; iz;ksxA (ii) okD; “kq) djsaA

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