

RISHI AUROBINDO MEMORIAL ACADEMY

134, P. K. GUHA ROAD, AIRPORT GATE NO. 1 KOLKATA-28

ANNUAL SYLLABUS OF 2022-23

CLASS XII

TIME DURATION	1 ST WEEK OF APRIL – 2 ND WEEK OF JUNE		3 RD WEEK OF AUGUST – 1 ST WEEK OF SEPTEMBER	2 ND WEEK OF OCTOBER – LAST WEEK OF JANUARY	
SUBJECTS	ASSESSMENT I	PROJECT/PRACTICAL	PRE TEST [INCLUDING ASSESSMENT I]	PROJECT/PRACTICAL	MOCK TEST/SELECTION TEST [FULL SYLLABUS]
ENGLISH LANGUAGE	<ol style="list-style-type: none"> 1. Grammar 2. Composition 3. Report writing 4. Film review 	Statement of Purpose	<ol style="list-style-type: none"> 1. Grammar 2. Proposal writing 3. Directed writing 	ARGUMENTATIVE ESSAY. " THE MOST IMPORTANT LEARNING TAKES AT THE AGE OF 18 YEARS. WRITE FOR OR AGAINST THE STATEMENT.	Full Syllabus
ENGLISH LITERATURE	<ol style="list-style-type: none"> 1. The Singing Lesson 2. The Sound machine 3. The Darkling Thrush 4. We are the Music makers 5. Crossing the Bars 6. To Build a fire <p>The Tempest Act IV, Scene 1 Act V, Scene 1 (Part)</p>	Throw some light on the major themes of CROSSING THE BAR. (1000-1500 words)	<ol style="list-style-type: none"> 1. B.Wordsworth 2. Dover Beach 3. The Story of an hour 4. Birches <p>The Tempest Act III, Scenes 1, 2, 3 Act IV, Scene 1 Act V, Scene 1 Epilogue</p>	Discuss the character of Klausner from the short story 'THE SOUND MACHINE'.	Full Syllabus The Tempest Act III, Scenes 1, 2, 3 Act IV, Scene 1 Act V, Scene 1 Epilogue
EVS	<ol style="list-style-type: none"> 1. Chapter – 1 Human Beings & Nature 2. Chapter – 2 Population & Conservation Ecology 3. Chapter – 3 Monitoring Pollution 	Pollution monitoring System	<ol style="list-style-type: none"> 1. Chapter - 4 Third World Development 2. Chapter – 5 Sustainable Agriculture 		Full Syllabus
HINDI	Literature 1) दासी क्या निराश हुआ जाए तुलसी के पद जान तुझको दूर जाना सारा आकाश - उत्तरार्ध-1 to 4 व्याकरण मुहावरा ,वाक्य शुद्धिकरण	क्या निराश हुआ जाए.कहानी का उद्देश्य, शीर्षक की सार्थकता, कहानी का सारांश और लेखक का जीवन परिचय	Literature 1) भक्तिन 2) उद्यमी नर सारा आकाश -5-7उत्तरार्ध व्याकरण अपठित गद्यांश, निबंध		Literature 1) संस्कृति क्या है 2) मजबूरी 3) बादल को घिरते देखा 4) अंधेरे का दीपक सारा आकाश उत्तरार्ध-8-10 व्याकरण अपठित गद्यांश ,मुहावरा, वाक्य शुद्धिकरण निबंध.

BENGALI	<p>প্রবন্ধ ও গদ্য সংকলন: বীরশুদ্ধা (শরদিন্দু বন্দ্যোপাধ্যায়) আদাব (সমরেশ বসু) লছমনের মা (মহাশ্বেতা দেবী)</p> <p>কবিতা সংকলন: বাবরের প্রার্থনা (শঙ্খ ঘোষ) যদি নির্বাসন দাও (সুনীল গঙ্গোপাধ্যায়) রাস্তা কারও একার নয় (বীরেন্দ্র চট্টোপাধ্যায়)</p> <p>ব্যাকরণ: ধন্যাত্মক শব্দ, বাক্য পরিবর্তন, বাচ্য পরিবর্তন, বানান সংশোধন, বাক্য সংশোধন, এককথায় প্রকাশ, প্রবাদ প্রবচন ও বাগধারা, বোধপরীক্ষণ, প্রবন্ধ রচনা।</p> <p>কোনি-অষ্টম, নবম, দশম অধ্যায়।</p>	<p>প্রকল্প: "আদাব" গল্পের প্রেক্ষাপট বিশ্লেষণ করে লেখক সমরেশ বসু যে সাম্প্রদায়িক সম্প্রীতির চিত্র তুলে ধরেছেন তা আলোচনা করো।</p> <p>অথবা, অনাচার গল্পে সুভাষ কাকিমা সামাজিক দৃষ্টিতে অনাচার করলেও; সুভাষ কাকিমার মধ্যে যে মানবিক চরিত্রের নিদর্শন পাওয়া যায় তা গল্পের প্রেক্ষাপট অনুযায়ী বিশ্লেষণ করো।</p>	<p>প্রবন্ধ ও গদ্য সংকলন একটি তুলসী গাছের কাহিনী (ওয়ালিউল্লাহ)</p> <p>কবিতা সংকলন স্বাধীনতা তুমি (শামসুর রহমান)</p> <p>ব্যাকরণ: উক্তি পরিবর্তন, পদান্তর, সমোচ্চারিত ও ভিন্নার্থক শব্দ, কোনি- একাদশ - দ্বাদশ অধ্যায়</p>		<p>Full Syllabus প্রবন্ধ ও গদ্য সংকলন না পাহারার পরীক্ষা (শঙ্খ ঘোষ) Revision of class XI full syllabus</p> <p>কবিতা সংকলন নুন (জয়গোস্বামী) Revision of class XI full syllabus</p> <p>ব্যাকরণ: বিপরীত শব্দ, সমার্থক শব্দ, প্রবন্ধ রচনা, বোধপরীক্ষণ। কোনি- ত্রয়োদশ থেকে চতুর্দশ অধ্যায়। (Revision full book)</p>
PSYCHOLOGY	<ol style="list-style-type: none"> Chapter 1: INTELLIGENCE AND ABILITY Chapter 2: PERSONALITY 	<p>On Attitude</p>	<ol style="list-style-type: none"> Chapter 3: LIFE SPAN DEVELOPMENT Chapter 4: STRESS AND STRESS MANAGEMENT 	<p>On Stress</p>	<p>Full Syllabus and,</p> <ol style="list-style-type: none"> Chapter 5: PSYCHOLOGICAL DISORDERS AND PSYCHOTHERAPY Chapter 6: SOCIAL THOUGHT AND SOCIAL BEHAVIOUR Chapter 7: ATTITUDE

PHYSICAL EDUCATION	<ol style="list-style-type: none"> 1. (CH.NO-1) SOCIOLOGICAL ASPECT OF PHYSICAL EDUCATION -GAMES AND SPORTS AS MAN'S CULTURE HERITAGE -DEVELOPMENT OF THE INDIVIDUAL THROUGH GAMES AND SPORTS -ROLE OF PHYSICAL EDUCATION -PHYSICAL EDUCATION AND PERSONALITY DEVELOPMENT 2. (CH.NO-2) TRAINING METHODS -MEANING AND IMPORTANCE OF SPORTS TRAINING -METHODS OF TRAINING -WARMING UP, CONDITIONING AND COLLING EXERCISE -ISOMERTIC AND ISOTONIC EXERCISES -CIRCUIT TRAINING -WEIGHT TRAINING 3. (CH.NO-3) COMPETITIONS AND TOURNAMENTS -TOURNAMENTS AND TYPES OF TOURNAMENTS -DIFFERENCE BETWEEN PROFESSIONAL AMATEUR PLAYERS 	CRICKET, FOOTBALL, VOLLEYBAL, BASKETBALL	<ol style="list-style-type: none"> 1. CH.NO-5) HEALTH EDUCATION AND HEALTH PROBLEMS -MEANING AND DEFINATION OF HEALTH EDUCATION -PRINCIPLE AND IMPORTANCE OF HEALTH EDUCATION -DISABILITY AND REHABILITATION -POSTUREAL DIFORMITIES -PERSONAL HYGIENE AND SLEEP REQUIREMENTS -SUBSTANCE ABUSE 		<ol style="list-style-type: none"> 1. (CH.NO-6) SPORTS INJURIES AND FIRST AID -SPORTS RELATED INJURIES -ROLE OF INDIVIDUAL IN PREVENTION OF SPORTS RELATED ACCIDENTS -FIRST AID 2. ANY TWO OF THE FOLLOWING GAMES – CRICKET, FOOTBALL, VOLLEYBALL, BASKETBALL, HOCKEY, BADMINTON, TENNIS, SWIMMING, ATHLETICS.
COMPUTER SCIENCE	<ol style="list-style-type: none"> 1. Boolean Algebra 2. Computer Hardware 3. Programming in Java (Review of Class XI Sections B and C) 4. Objects 5. Methods 	15 Java Programs.	<ol style="list-style-type: none"> 1. Boolean Algebra 2. Computer Hardware 3. Programming in Java (Review of Class XI Sections B and C) 4. Objects 5. Methods 6. Primitive values, Wrapper classes, Types and casting 7. Inheritance, Interfaces and Polymorphism 8. Data structures 	15 Java Programs (+15 java programs of Pre Board)	Full Syllabus

MATHEMATICS	SEC – A 1. Relations and Function 2. Inverse Trigonometry Function 3. Matrices 4. Determinants	Draw graph of $y = \sin$ inverse x (or any other trigonometric function), using the graph of $y = \sin x$ (or any other relevant trigonometric function). Demonstrate the concept of mirror line (about $y=x$) and find its domain and range.	1. Indeterminants forms 2. Continuity and Differentiability 3. Application of Derivatives	Sec B Using vector algebra, find the area of a parallelogram/ triangle. Also derive the area analytically and verify the same. Sec C Using any suitable data, find the optimum cost/ profit by formulating a linear programming problem (LPP).	Full syllabus Sec – B 1. Vectors Sec – C Application of calculus in commerce and Economics
PHYSICS	1. Electrostatics 2. Current electricity 3. Magnetic effects of current and magnetism	(Any one) i. A brief study on black Hole. ii. Quantum computation- a new era.	1. Electromagnetic induction and alternating current 2. Optics(Only ray optics) 3. Electromagnetic waves	Lab Manual	Full syllabus 1. Optics (Wave optics) 2. Dual Nature 3. Atomic physics 4. Nuclear physics 5. Semi conductor physics
CHEMISTRY	CH1- Solutions CH2- Electrochemistry CH6- Haloalkanes, haloarenes CH7- Alcohols, phenols and ethers	(any one) Vitamins and hormones Insecticides, pesticides and chemical fertilizers Effect of green house gases	CH3- Chemical kinetics CH4- d and f- block elements CH8- Aldehydes, ketones and carboxylic acids CH9- Organic compounds containing nitrogen	Lab Manual	FULL SYLLABUS CH5- coordination compounds CH10- Biomolecules
BIOLOGY	1. Unit 1. Reproduction (ch-1 excluded) 2. Unit 2. Genetics and Evolution	Cancer/ bio-piracy/ drug addiction and community/ dna fingerprinting/ gene therapy	1. Unit 3. Biology and Human Welfare	Lab Manual	Full syllabus 1. Unit 4. Biotechnology and its Application 2. Unit 5. Ecology and Environment
POLITICAL SCIENCE	1. Forms of Government 2. Constitution 3. Franchise 4. The Legislature 5. The Executive 6. Local Self Government	Discrimination on faced by a girl child/ Right to Education	1. The Judiciary 2. Indian Constitution 3. Fundamental Rights and Directive Principles 4. Democracy in India		Full syllabus

<p style="text-align: center;">HISTORY</p>	<ol style="list-style-type: none"> 1. Towards Independence and Partition: The Last Phase(1935-1947) 2. Establishment and Development of Indian Democracy(1947-1966) 3. Challenges to Indian Democracy(1964-1977) 4. World War II 5. Changing Phase of Indian Democracy(1977-1986) 6. India's Foreign Policy 7. De-colonization in Asia(China) and Africa(Ghana and Kenya) 8. Cold War(1945-1991), Origin , Course , End and Impact 	<p>UN- Structure and peace keeping actions- Illustrate elaborately.</p>	<ol style="list-style-type: none"> 1. Protest Movement (Civil Rights Movement, Anti Apartheid Movement, and Feminist Movement) 2. Movement for Women's Rights 3. Middle East : Israel- Palestine Conflict (1916-1933) 		<p>Full Syllabus</p>
<p style="text-align: center;">GEOGRAPHY</p>	<p>Locational setting of India; Geological evolution and structure of India; Relief of India; Drainage of India; Climate of India; Natural Vegetation</p> <p>Map of India:</p> <ol style="list-style-type: none"> (i) Locational settings of India (ii) Mountains (iii) Peaks (iv) Plain, plateaus and peninsula (v) Lakes (vi) Water bodies (vii) Passes 	<p>Amenity study: Study of my school</p>	<p>Population; Migration Trends; Demographic Attributes; Rural settlements; Urban Settlements</p> <p>Map of India:</p> <ol style="list-style-type: none"> (i) Rivers (ii) Climate of India (iii) Natural Vegetation (iv) Population 	<p>Practical:</p> <ol style="list-style-type: none"> (a) DRAWING OF SCALES, (b) DRAWING OF CROSS SECTIONS OR PROFILE, (c) INTERPRETATION OF TOPOGRAPHICAL MAP AND (d) SURVEYING. 	<p>Full Syllabus</p> <p>Environmental management and land use pattern; Water resources; Agriculture; Fisheries; Minerals and Power Resources; Transport and Communication; Industries; Tourism Industry; Regional Economic Development (Case Studies)</p> <p>Map of India:</p> <ol style="list-style-type: none"> (i) Resources of India (ii) Agriculture (iii) Minerals (iv) Power resources (v) Industries (vi) Transport (vii) Port (viii) Hinterland (ix) Case studies

ECONOMICS	<ol style="list-style-type: none"> Chapter: Demand Chapter: Consumer' behaviour Chapter: Elasticity of demand 	Compare the contribution made by different sectors of the economy towards GDP growth during the planning period.	<ol style="list-style-type: none"> Chapter: Supply and elasticity of supply Chapter: Market equilibrium Chapter: Public Debt Chapter: Cost of production Chapter: Cost and Revenue 	Role of RBI	Full Syllabus <ol style="list-style-type: none"> Chapter: Theory of income and employment Chapter: Money and Banking Chapter: Balance of payment Chapter: National income (circular flow of income)
COMMERCE	<ol style="list-style-type: none"> Chapter: Business environment Chapter: Financing 	SWOT analysis of two joint stock Company	<ol style="list-style-type: none"> Chapter: Planning Chapter: Organising Chapter: Directing Chapter: Marketing Chapter: Consumer Protection 	Marketing Mix	Full Syllabus <ol style="list-style-type: none"> Chapter: Staffing Chapter: Controlling Chapter: Consumer protection
ACCOUNTS	<ol style="list-style-type: none"> Chapter: Introduction to Partnership- Profit and Loss Appropriation Account Chapter: Admission 	Ratio Analysis	<ol style="list-style-type: none"> Chapter: Retirement Chapter: Issue of Shares Chapter: Ratio Analysis Chapter: Death 	Issue of shares	Full Syllabus <ol style="list-style-type: none"> Chapter: Dissolution Chapter: Issue and Redemption of Debentures
BUSINESS STUDIES	<ol style="list-style-type: none"> Chapter: Introduction to HRM Chapter: Job and man power planning Chapter: Staff recruitment Chapter: Staff selection 	Human Resource Management	<ol style="list-style-type: none"> Chapter: Staff training Chapter: Staff morale Chapter: Staff motivation Chapter: Staff remuneration Chapter: Globalisation Chapter: Outsourcing 	Globalisation and E-business	<ol style="list-style-type: none"> Chapter: Staff leadership Chapter: Staff appraisal Chapter: Staff promotion Chapter: Staff separation (excluding interview) Chapter: Business communication