**RISHI AUROBINDO MEMORIAL ACADEMY**

134 P. K. GUHA ROAD, KOL-28

**ANNUAL SYLLABUS OF 2024-25**

**CLASS XII**

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| **SUBJECT** | **ASSESSMENT I** | **PRE-TEST** | **ASSESSMENT II** | **MOCK-TEST** |
| **ENG I**  **(LANGUAGE)** | 1. Composition- Narrative, Reflective and Expository  2. Directed writing- Book review and Film review  3. Proposal writing 4.Functional grammar- Verbs, conditional sentences, Sentence structure , Degrees of comparison, Reported speech, voices, Time Adverbial,Sentence clause structure, Prepositional phrases  5. Unseen Comprehension | **1**.Composition- Argumentative Descriptive, Story writing  2.Directed writing- Article Writing and review of cultural program  3.Proposal writing  4.Functional grammar- Verbs, conditional sentences, Sentence structure , Degrees of comparison, Reported speech, voices, Time Adverbial, Sentence clause structure, Prepositional phrases  5.Unseen Comprehension  **Project- Article Writing on women safety.** | 1.Composition- All  2.Directed writing- Speech writing and report writing  3.Proposal writing  4.Functional grammar- Verbs, conditional sentences, Sentence structure , Degrees of comparison, Reported speech, voices, Time Adverbial, Sentence clause structure, Prepositional phrases  5.Unseen Comprehension | 1.Composition- All  2.Directed writing- Personal Profile , Statement of purpose and rest of the syllabus  3.Proposal writing  4.Functional grammar- Verbs, conditional sentences, Sentence structure , Degrees of comparison, Reported speech, voices, Time Adverbial, Sentence clause structure, Prepositional phrases  5.Unseen Comprehension  **Project – Listening and speaking skills.** |
| **ENG II**  **(LITERATURE)** | 1. Athi/Guest- Rabindranath Tagore 2. The Cookie Lady- Philip K Dick 3. Telephone conversation- Wole Soyinka 4. Death be not proud- John Donne 5. Macbeth- Act III | 1. There will come soft rains- Ray Bradbury 2. Indigo- Satyajit Ray 3. Tithonus- Alfred Lord Tennyson 4. Macbeth- Act IV 5. Whole syllabus of Assessment I   **Project- Character analysis of Macbeth** | 1. The medicine Bag- Virginia Sneve 2. Beethoven- Shane Koyczan 3. Small towns amd the river 4. Macbeth-Act V | Revision of whole syllabus for ISC  Project- Character analysis of Macbeth |
| **BENGALI** | প্রবন্ধওগদ্যসংকলন:বীর্যশুল্কা (শরদিন্দুবন্দ্যোপাধ্যায়)  আদাব (সমরেশবসু)  কবিতাসংকলন:বাবরেরপ্রার্থনা (শঙ্খঘোষ),স্বাধীনতা তুমি (শামসুররহমান)  কোনি-সপ্তম,অষ্টম,  ব্যাকরণ:ধন্যাত্মকশব্দ,বাক্যপরিবর্তন,এককথায়প্রকাশ, প্রবাদপ্রবচনওবাগ্‌ধারা,বোধপরীক্ষণ, প্রবন্ধরচনা। | Whole syllabus of Assessment I  প্রবন্ধওগদ্যসংকলন:  বীর্যশুল্কা (শরদিন্দুবন্দ্যোপাধ্যায়)  আদাব (সমরেশবসু)  লছমনেরমা(মহাশ্বেতাদেবী)  কবিতাসংকলন:  বাবরেরপ্রার্থনা (শঙ্খঘোষ)  যদিনির্বাসনদাও (সুনীলগঙ্গোপাধ্যায়)  রাস্তাকারওএকারনয় (বীরেন্দ্রচট্টোপাধ্যায়)  স্বাধীনতাতুমি (শামসুররহমান)  কোনি-সপ্তম,অষ্টম, নবমঅধ্যায়।  ব্যাকরণ: ধন্যাত্মকশব্দ,বাক্যপরিবর্তন, বাচ্যপরিবর্তন, বানানসংশোধন ,বাক্যসংশোধন, এককথায়প্রকাশ ,প্রবাদপ্রবচনওবাগ্‌ধারা, বোধপরীক্ষণ, প্রবন্ধরচনা।  **প্রকল্প-** ‘ স্বাধীনতারমানেশুধুবৈদেশিকশাসনথেকেমুক্তিনয়- স্বাধীনতারমানেমনেরঅবাধমুক্তি।’ – “স্বাধীনতাতুমি” কবিতাঅবলম্বনেআলোচনাকরো। | প্রবন্ধওগদ্যসংকলন  নাপাহারারপরীক্ষা(শঙ্খঘোষ)  একটিতুলসীগাছেরকাহিনী (ওয়ালিউল্লাহ)  ঠাকুরদা (রবীন্দ্রনাথঠাকুর)  জোড়াসাঁকোরধারে (অবনীন্দ্রনাথঠাকুর)  তাসেরঘর (তারাশঙ্করবন্দ্যোপাধ্যায়)  অনাচার (আশাপূর্ণাদেবী)  কবিতাসংকলন:  নুন (জয়গোস্বামী)  ওরাকাজকরে (রবীন্দ্রনাথঠাকুর)  পুব-পশ্চিম (অচিন্ত্যকুমারসেনগুপ্ত)  বনলতাসেন (জীবনানন্দদাশ)  বর্ণপরিচয় (তরুণসান্যাল)  কোনি- দশম, একাদশ, চতুর্দশঅধ্যায়।  ব্যাকরণ:  উক্তিপরিবর্তন, প্রবাদপ্রবচনওবাগ্‌ধারা,  পদান্তর, সমোচ্চারিতওভিন্নার্থকশব্দ, বানানসংশোধন, বিপরীতশব্দ, সমার্থকশব্দ, প্রবন্ধরচনা,বোধপরীক্ষণ। | **Full syllabus as prescribed by ISC** |
| **HINDI** | गद्य :-   1. दासी 2. क्यानिराशहुआजाए   पद्य :-   1. तुलसीदासकेपद   साराआकाश  ११-१५ | गद्य:-   1. भक्तिन   पद्य:-   1. जागतुझकोदूरजाना 2. उद्यमीनर   Full syllabus of revisional assessment.  परियोजना :-  छायावादीकवि – जयशंकरप्रसादकाजीवनपरिचयलिखतेहुएउनकीकाव्यगतविशेषताओंकापरिचयदें। | गद्य:-   1. संस्कृतिक्याहै? 2. मजबूरी   पद्य:-   1. बदलकोघूरतेदेखाहै 2. अंधेरेकादीपक   साराआकाश :-  १६-२० | Class -11,12  ( full syllabus ) |
| **PSYCHOLOGY** | 1. Intelligence and ability 2. Personality | 1. Lifespan development 2. Stress and stress management 3. Social thought and social behaviour 4. Practical - On Stress | 1. Psychological disorders and psychotherapy 2. Applications of psychology | 1. Ch 1 to 6 2. Ch 7, Attitude, prejudice and Stereotype 3. Ch 8 , Applications of psychology 4. Practical - On Attitude |
| **PHYSICAL EDUCATION** | **SECTION-A**  1. Sociological Aspects of Physical Education  2. Training Methods | SECTION-A  Assessment -1  &  1. Career Aspects in Physical Education  2. Competitions and Tournaments  SECTION-B  Cricket, Football, Hockey, Basketball, Volleyball | 1. Health Education and Health Problems.  2. Sports Injuries and First Aid | Full Syllabus  Project: cricket, Football, Hockey, Basketball, Volleyball, Badminton, Tennis, Swimming, Athletics (Any two) |
| **HISTORY**  **AND**  **CIVICS** | 1. Towards Independence and Partition : The Last Phase ( 1935 – 1947).  2. Establishment and Development of Indian Democracy ( 1947 – 1966).  3. Challenges of Indian Democracy ( 1964 – 1977).  4. World War II.  5. Changing Face Of The Indian Democracy ( 1977 – 1986).  6. Indian Foreign Policy. | Whole syllabus of Assessment I  1. Decolonisation of Asia ( China) and Africa ( Ghana and Kenya).  2. Cold War ( 1945 – 1991) : Origin , Course, End and Impact.  **PROJECT:**  UN – Structure and peace keeping actions – Illustrate elaborately. | 1. Protest Movement ( Civil Rights Movement Anti – Aparthied Movement and Feminist Movement) .  2. Movements For Women’s Rights. | 1.Middle East : Israeli- Palestine conflict ( 1918 – 1993)  Full syllabus as prescribed by ISC |
| **GEOGRAPHY** | 1. Locational setting of India 2. Geological evolution and structure of India 3. Relief of India 4. Drainage of India 5. Climate of India Natural Vegetation   **Map of India:**   1. Locational settings of India 2. Mountains 3. Peaks 4. Plain, plateaus and peninsula 5. Lakes | Whole syllabus of Assessment I   1. Population 2. Migration Trends 3. Demographic Attributes 4. Rural settlements   Urban Settlements  **Map of India:**   1. Water bodies 2. Passes 3. Rivers 4. Climate of India 5. Natural Vegetation   Population  **PROJECT:**  **AMENITY STUDY: STUDY OF MY SCHOOL** | 1. Environmental management and land use pattern 2. Water resources 3. Agriculture 4. Fisheries 5. Minerals and Power Resources 6. Transport and Communication 7. Industries 8. Tourism Industry 9. Regional Economic Development (Case Studies)   **Map of India:**   1. Resources of India 2. Agriculture 3. Minerals 4. Power resources 5. Industries 6. Transport 7. Port 8. Hinterland   Case studies | Full syllabus as prescribed by ISC  **Practical:**   1. Drawing of scales, 2. Drawing of cross sections or profile, 3. Interpretation of topographichal map and 4. Surveying. |
| **POLITICAL SCIENCE** | 1.Forms of Government (3)  2. Constitution  3. Franchise and Representation.  4. Indian Constitution  5. Fundamental Rights  6. Directive principles of the  state policy. | **1.Forms of Government (3)**  **2. Constitution**  **3. Franchise and Representation.**  **4. Indian Constitution**  **5. Fundamental Rights**  **6. Directive principles of the**  **state policy.** | 1. Organs of the government (3)  2. Local self government  3. Democracy in India. | **FULL SYLLABUS AS PRESCRIBED BY ISC.**  **Project: Local Self Government** |
| **MATHEMATICS** | **SECTION - A**   1. Relations and Functions 2. Inverse Trigonometric Functions 3. Matrices 4. Determinants 5. Continuity and Differentiability | **SECTION - A**   1. Relations and Functions 2. Inverse Trigonometric Functions 3. Matrices 4. Determinants 5. Continuity and Differentiability 6. Applications of Derivatives   **SECTION - B**   1. Vectors 2. Three-Dimensional Geometry   **SECTION - C**   1. Application of Calculus in Commerce and Economics   **PROJECT:** EXPLORE THE PRINCIPAL VALUE OF THE FUNCTION SIN INVERSE X ( OR ANY OTHER TRIGONOMETRIC FUNCTIONS ) USING A UNIT CIRCLE. | **SECTION - A**   1. Integrals ( Definite and   Indefinite )   1. Differential Equation 2. Probability   **SECTION - B**   1. Application of Integrals   **SECTION - C**   1. Linear Regression 2. Linear Programming Problems | **FULL SYLLABUS AS PRESCRIBED BY ISC**  **PROJECT ( ANY ONE )**  **SECTION - B**  USING VECTOR ALGEBRA, FIND THE AREA OF A PARALLELOGRAM / TRIANGLE. ALSO DERIVE THE AREA ANALYTICALLY AND VERIFY THE SAME.  **SECTION - C**  USING ANY SUITABLE DATA, FIND THE OPTIMUM COST IN THE MANUFACTURING PROBLEM BY FORMULATING A LINEAR PROGRAMMING PROBLEM ( LPP ). |
| **BIOLOGY** | 1.Unit 1.Reproduction  2.Unit 2.Genetics and Evolution | Assessment I  And  Unit 3: Biology and Human welfare  **PROJECT**: Cancer/ BIO-  PIRACY/drug addiction and community/  DNA fingerprinting/Gene therapy/Dengue/  Malaria | Unit4.Biotechnology and  its Application | Full syllabus as prescribed by ISC  Lab Manual + Unit  4.Biotechnology and its  Application  2. Unit 5.Ecology and  Environment |
| **PHYSICS** | Assignment I  1. Electrostatic  2. Current Electricity  3. Magnetic effects of current and magnetism.  Practical  1. To find focal length of a convex lens by using u-v method (no parallax method).  2. To find f of a convex lens by displacement method.  3. Using a metre bridge, determine the resistance of about 100 cm of (constantan) wire. Measure its length and radius and hence, calculate the specific resistance of the material. | Whole Syllabus of Assessment I +  4. Electromagnetic Induction and Alternating current  5. Electromagnetic Waves.  Practical  4.Verify Ohm’s law for the given unknown resistance (a 60 cm constantan wire), plotting a graph of potential difference versus current. Also calculate the resistance per cm of the wire from the slope of the graph and the length of the wire.  5. To determine the focal length of a given convex lens with the help of an auxiliary convex lens.  6. To determine the focal length of a concave lens, using an auxiliary convex lens, not in contact and plotting appropriate graph.  7. To determine focal length of concave mirror by using two pins (by u-v method). | Assessment II  6. Ray Optics  7. Wave Optics  8. Dual nature of Matter and Photo-electric effects  Practical  8. To determine the refractive index of a liquid by using a convex lens and a plane mirror.  9. To determine the focal length of a convex mirror using convex lens.  10. To compare emfs of two cells using a potentiometer.  11. To determine the internal resistance of a cell by a  potentiometer.  12. From a potentiometer set up, measure the fall in  potential (i.e. pd) for increasing lengths of a  constantan wire, through which a steady current  is flowing; plot a graph of pd (V) versus length  (l). Calculate the potential gradient of the wire  and specific resistance of its material. | **Full syllabus as prescribed by ISC** |
| **CHEMISTRY** | 1. Solutions  2. Electrochemistry  3. Haloalkanes, haloarenes  **PRACTICAL:LAB MANUAL**  1. Redox Titration : KMnO4 vs Mohr's salt  2. Salt analysis | 1.Chemical kinetics  2.Alcohols, phenols and ethers  (including full syllabus ofASSESSMENT I)  **PRACTICAL: LAB MANUAL**  1.RedoxTitration:KMnO4vsMohr'ssalt  2.Saltanalysis  **PROJECT:**  **(**Any one from the topics given in the prescribed ISC syllabus**)** | 1.Coordination compounds  2. d and f- block elements  3. Aldehydes, ketones and carboxylic acids  **PRACTICAL:LAB MANUAL**  1.RedoxTitration:KMnO4vs Oxalic acid  2. Identification of organic compounds | Full syllabus as prescribed by ISC  1. Organic compounds containing nitrogen  2. Biomolecules  **PRACTICAL:LAB MANUAL**  1.RedoxTitration:KMnO4vsOxalicacid  2.Identificationoforganiccompounds  3. Salt Analysis |
| **COMPUTER SCIENCE** | 1. Boolean Algebra  (i)Propositional logic  (ii) Binary valued quantities.  (iii)Basic theorem of Boolean algebra.  2. Computer Hardware  (i)Elementary logic gate  (ii)Application of Boolean algebra and logic gates. | 3. Implementation of algorithms to solve problems  4.Programming in Java(Review of Class XI Sections B and C)  5.Objects  6. Primitive values, Wrapper classes, Types and casting  7. Variables, Expressions  8. Statements, Scope  Practical based on this  INCUDING ASSESSMENT I SYLLABUS | 9. Methodes  Practical based on this  10. Arrays,String  Practical based on this  11. Recursion  Practical based on this  12. Inheritance, Interfaces, and Polymorphism  Practical based on this  13. Data structure  Practical based on this  14. Complexity and big O notation  Practical based on this | Full syllabus |
| **EV S** | Ch-1 Human being and nature  Ch-2 Population Ecology  Ch-3 Conservation Ecology | **Ch-1+2+3+**  **Ch-4 Pollution Monitoring**  **Ch-5 The Third world Development**  **PROJECT: As per Council. ( informed later)** | Ch-6 Sustainable Agriculture  Ch-7 Environmental and natural resources economy  Ch-8 International Relations and the environment | Full syllabus |
| **ECONOMICS** | 1. Theory of Demand  2. Elasticity of Demand  3. Theory of Supply  4. Elasticity of Supply | 1. Market Mechanism  2. Concept of Production and Production Function  3. Cost and Revenue  (Including Assessment 1 syllabus)  **PROJECT: Compare the contribution made by different sectors of the economy towards GDP growth during the planning period.** | 1. Forms of Market  2. Theory of Income and Employment  3.National Income | 1. Money and Banking  2. BOP  3. Public Finance  (including whole syllabus as prescribed by council)  **PROJECT: Make a comparative study of the allocation of financial resources of the Central Government Budget on Agriculture, Defence, Industry and Education in the last ten years. Prepare a report on your observations.** |
| **COMMERCE** | 1. Business environment  2.Fixed and working capital  3.Sources of Finance for a Joint stock company  4. Banking- latest trends | 1. Management  2. Principles of Management  3.Functions of Management  4. Planning  5..Organising  6. Staffing  Including syllabus of Assessment 1  **PROJECT:Select any business undertaking. Study the selected business in terms of ownership, capital and profitability. Make a S.W.O.T. analysis and present it in a tabular form** | 1. Directing  2. Controlling  3. Coordination  4. Consumer protection | 1. Marketing-  Concept and functions  2. Marketing mix  Whole syllabus as per council  **PROJECT:Visit a commercial Bank. Find out the procedure to open a savings account. Find out the details of various Agency & General utility services provided by the bank.** |
| **ACCOUNTS** | 1. Fundamentals of Partnership: (Profit & Loss Appropriation)  2. Valuation of Goodwill  3 Ratio Analysis  4. Common size and Comparative statement Analysis: Balance sheet , Income statement | 1. Admission of Partner  2. Retirement and Death of Partner  3. Cash flow statement  Including Assessment 1 syllabus  **PROJECT: RATIO ANALYSIS** | 1. Issue of shares  2. Issue of Debentures  3. Redemption of Debenture | 1. Dissolution of Partnership firm  Whole syllabus as per council  **PROJECT: CASHFLOW STATEMENT** |
| **BST** | 1. Introduction to HRM  2. Job and manpower planning  3. Staff recruitment  4. Staff selection  5. Staff Training  6. Business entities | 1. Staff morale  2. Staff motivation  3. Staff remuneration  4. Globalisation  5. E-business  6. Outsourcing  7. Source of business finance  Including syllabus of Assessment 1  **PROJECT: Make a comparative study of any two E-Businesses in terms of their Nature, Size, Products and Services offered, Functioning and Policies.** | 1. Staff leadership  2 Staff appraisal  3 Staff promotion and transfer  4 Staff separation | 1 Emerging trends in HR  2 Business communication  3 Business Correspondence  4 Reports and Reports writing  5 Business regulators and intermediaries  Whole syllabus as per council  **PROJECT: Analyse the emerging trends in human resource management and discuss their implementation in India (Comparative study of five organisations).** |
| **FRENCH** | Mon Passeport (Level 0) –  Mid Term  Unité 6 :- Les Jours et Les Mois (Days and Months)  \*Les jours de la semaine (Week names)  \*Les mois de l'année (Months in a year)  \*Quel jour? /Quel mois?  Unité 7 :- Les objets de la classe  \* Les objets de la classe  \*Les articles indéfinis  \*Les couleurs | Unité8:-LesfruitsetLeslégumes(FruitsandVegetables)  \*Lesfruits  \*Leslégumes |  |  |