

Syllabus for the first term Examination, Class XII (2015-16)

Subject	Syllabus
Biology	Unit VI Reproduction Chapters 2,3 and 4 Unit VII Genetics and Evolution Chapters 5,6 and 7 Unit X Ecology Chapters 13,14 and 15
Chemistry	1. Solid state 2. Solutions 3. Electrochemistry 4. Chemical Kinetics 5. Surface Chemistry 6. p-Block Elements 7. Haloalkanes and Haloarenes
Physics	Chapter 1. Electric Charges and Fields Chapter 2. Electrostatic Potential and Capacitance Chapter 3. Current Electricity Chapter 4. Moving charges and magnetism Chapter 5. Magnetism and matter Chapter 6. Electromagnetic Induction Chapter 7. Alternating Current Chapter 8. Electromagnetic Waves
Maths	1. Probability 2. Relations and Functions 3. Inverse Trigonometric Functions 4. Continuity and Differentiability 5. Application Derivatives 6. Integrals(except properties of Definite Integrals)
English	1.My Mother at Sixty Six 2.Keeping Quiet 3.The Tiger King 4.The Last Lesson 5.The Rattrap

	6.The Enemy 7.Lost Spring 8.Deep Water 9.An Elementary School.... 10. A Thing of Beauty 11.Indigo 12. Invisible Man -Till Chapter 16 All writing skills done in Class XI and XII
PYTHON	<u>Unit-1 Review of Python and OOPS concept.</u> Ch-1 Review of PYTHON Ch-2 Concept of OOP Ch-3 Classes in PYTHON Ch-4 Inheritance <u>Unit-2 Advanced Programming with Python.</u> Ch-2 Stacks and Queues Ch-3 Data file handling <u>Unit-3 Data base Management Systems and SQL.</u> Ch-1 Data Base Concepts and SQL Ch-2 Structured Query language
Economics	MICROECONOMICS (75 marks) 1. Introduction and Economic Problems 2. Consumer's Equilibrium 3. Demand 4. Elasticity of demand 5. Production 6. Theory of Costs 7. Theory of Revenue 8. Producer's Equilibrium 9. Supply and elasticity of supply 10. Market Equilibrium 11. Forms of market MACROECONOMICS (25 marks) 1. Government Budget 2. Basic concepts of National Income Accounting 3. Circular Flow of income 4. Value added method for estimating national income
Bio-Technology	Unit 5: PROTEIN AND GENE MANIPULATION Chapter 5.1: RECOMBINANT DNA TECHNOLOGY Chapter 5.2: PROTEIN STRUCTURE AND ENGINEERING Chapter 5.3: GENOMICS AND BIOINFORMATICS

	<p>Unit 6: CELL CULTURE AND GENETIC MANIPULATION</p> <p>Chapter 6.1: MICROBIAL CELL CULTURE AND ITS APPLICATION PAGE NO.85 TO 92</p>
Psychology	<p>Chapter 1 : Variations in Psychological Attributes Chapter 2 : Self and Personality Chapter 3 : Meeting Life Challenges Chapter 4 : Psychological Disorders Chapter 5 : Therapeutic Approaches</p>
Fine Arts	<p>Unit 3: The Bengal School of Painting (New Era) (Above mid of the 19th Century) (A) (1) A. New Era in Indian Art-an introduction Study of the following painting New Era of Indian Art</p> <ol style="list-style-type: none"> 1. Rama Vanquishing the pride of the ocean-Raja Ravi Verma 2. Evolution of the Indian National Flag (First - 1906, Middle-1921 and Final 1947 Stages) : Study of the form and the colour scheme <p>The Bengal Schools (B)</p> <ol style="list-style-type: none"> (1) Introduction to the Bengal School of Painting <ol style="list-style-type: none"> (i) Origin and development of the Bengal School of painting (ii) Main features of the Bengal School of painting (2) Contribution of Indian artists in the struggle for National Freedom Movement (3) Study of the following painting of the Bengal School: Bengal Schools Painting <ol style="list-style-type: none"> (i) Journey's End - Abanindranath Tagore (ii) Tiller of the Soil- Nandlal Bose (iii) Rasa-Lila- KshitindranathMajumdar (iv) Radhika- M.A.R. Chughtai (v) Meghdoot- Ram Gopal Vijaivargiya <p>Unit - 4: The Modern Trends in Indian Art</p> <ol style="list-style-type: none"> (1) Introduction (2) Study of the following work of Contemporary (Modern) Indian Art' (3) The Modern Trends in Indian Art <ol style="list-style-type: none"> (a) Paintings <ol style="list-style-type: none"> (i) Magician-Gagaendranath Tagore

	<ul style="list-style-type: none"> (ii) Mother and child- Jamini Roy (iii) Three Girls- Amrita Shergil (iv) Mother Tera- M.F. Hussain (v) Gossip- N.S. Bendre (vi) Untitled – G.R. Santosh <p>(b) Graphic – prints :</p> <ul style="list-style-type: none"> (i) Whirlpool – Krishna Reddy (ii) Children – SomnathHore (iii) Devi- Jyoti Bhatt (iv) Of Walls- AnupamSud (v) Man, Women and Tree K. LaxmaGoud <p>(c) Sculptures:</p> <ul style="list-style-type: none"> (i) Triumph of Labour- D.P. Roychowdhury (ii) Santhal Family- RamkinkerVaij (iii) Cries Un-heard-Amar Nath Sehgal (iv) Ganesha- P.V. Jankiram (v) Chatturmukhi- Aekka Yada Giri Rao
<p>Accountancy</p>	<p>Unit 1: Accounting for Partnership Firms</p> <ul style="list-style-type: none"> • Partnership: features, Partnership Deed. • Provisions of the Indian Partnership Act 1932 in the absence of partnership deed. • Fixed v/s fluctuating capital accounts. • Preparation of Profit and Loss partners, guarantee of profits. • Past adjustments (relating to interest on capital, interest on drawing, salary and profit sharing ratio). • Goodwill: nature, factors affecting and methods of valuation - average profit, super profit and capitalization. • Change in the Profit Sharing Ratio among the existing partners - sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves and accumulated profits. Preparation of revaluation account and balance sheet. • Accounting for Partnership firms – Reconstitution and Dissolution. <ul style="list-style-type: none"> ○ Change in the Profit Sharing Ratio <ul style="list-style-type: none"> ▪ Among the existing partners - sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves and accumulated profits. Preparation of revaluation account and balance sheet. ○ Admission of a partner – <ul style="list-style-type: none"> ▪ Effect of admission of a partner on change in the profit sharing ratio, treatment of goodwill (as per as 26), treatment for revaluation of assets and

	<p>reassessment of liabilities, treatment of reserves and accumulated profits, adjustment of capital accounts and preparation of balance sheet.</p> <ul style="list-style-type: none"> ○ Retirement and death of a partner: (only the topics mentioned here) <ul style="list-style-type: none"> ▪ Effect of retirement / death of a partner on change in profit sharing ratio, treatment of goodwill (as per as 26) <p style="text-align: center;">Part B: Financial Statement Analysis</p> <p>Unit 3: Analysis of Financial Statements</p> <ul style="list-style-type: none"> ● Financial statements of a company: <ul style="list-style-type: none"> ○ Statement of Profit and Loss and Balance Sheet in the prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013). ● Financial Statement Analysis: <ul style="list-style-type: none"> ○ Objectives, importance and limitations. ● Tools for Financial Statement Analysis: <ul style="list-style-type: none"> ○ Comparative statements, common size statements, cash flow analysis, ratio analysis. ● Accounting Ratios: <ul style="list-style-type: none"> ○ Objectives, classification and computation. ○ Liquidity Ratios: Current ratio and Quick ratio. ○ Solvency Ratios: Debt to Equity Ratio, Total Asset to Debt Ratio, Proprietary Ratio and Interest Coverage Ratio. ○ Activity Ratios: Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade Payables Turnover Ratio and Working Capital Turnover Ratio. ○ Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment. <p>Unit 4: Cash Flow Statement</p> <ul style="list-style-type: none"> ● Meaning, objectives and preparation (as per AS 3 (Revised) (Indirect Method only) ● Scope: <i>Adjustments relating to depreciation and amortization, profit or loss on sale of assets including investments, dividend (both final and interim) and tax.</i>
Business Studies	<p>Unit I: Nature and Significance of Management</p> <ul style="list-style-type: none"> ● Management- concept, objectives and importance. ● Management as Science, Art and Profession. ● Levels of Management ● Management functions- planning, organising, staffing, directing and controlling.

- Coordination- concept and importance.

Unit 2: Principles of Management

- Principles of Management- concept and significance.
- Fayol's principles of management.
- Taylor's scientific management- principles and techniques

Unit 3: Management and Business Environment

- Business Environment- concept and importance.
- Dimensions of Business Environment- Economic, Social, Technological, Political and Legal.
- Impact of Government policy changes on business with special reference to liberalization, privatization and globalization in India

Unit 9: Financial Management

- Concept and objectives of financial management.
- Financial decisions: investment, financing and dividend and factors affecting.
- Financial planning - concept and importance.
- Capital Structure - Concept.
- Fixed and Working Capital - Concept and factors affecting their requirements.

Unit 10: Financial Markets

- Financial Markets: Concept and types.
- Money market and its instruments.
- Capital market and its types (primary and secondary)
- Stock Exchange- Functions and trading procedure.
- Securities and Exchange Board of India (SEBI)- objectives and functions.

Unit 11: Marketing Management

- Selling, Marketing and Societal Marketing management- Concept.
- Marketing management- Concept.
- Marketing Functions.
- Marketing management philosophies.
- Marketing Mix - Concept & elements
- Product-Concept, branding, labelling and packaging.
- Price- Factors determining price.
- Physical Distribution- concept, channels of distribution: types, choice of channels.
- Promotion- Concept and elements; advertising-concept, role, objections against advertising, personal selling-concept and qualities of a good salesman, sales promotion- concept and techniques, public relations- concept and role.

	<p>Unit 12: Consumer Protection</p> <ul style="list-style-type: none"> • Concept and importance of consumer protection. • Consumer Protection Act 1986 - Meaning of consumer and consumer protection - Rights and responsibilities of consumers - Who can file a complaint and against whom? - Redressal machinery. - Remedies available. • Consumer awareness-Role of consumer organizations and NGOs
<p>Entrepreneurship</p>	<p>Unit 1: Entrepreneurial Opportunity-</p> <ul style="list-style-type: none"> • Sensing Entrepreneurial opportunities • Environment scanning • Problem identification • Spotting trends • Creativity and Innovation • Selecting the right opportunity <p>Unit 2: Enterprise Planning-</p> <ul style="list-style-type: none"> • Forms of Business Entities • Creating the Plan • Business Plan • Organizational Plan • Production Plan • Marketing Plan • Operational Plan • Financial Marketing Plan • Human Resource Planning • Formalities for starting a business <p>Unit 5: Business Arithmetic</p> <ul style="list-style-type: none"> • Unit of sale, Unit cost, Unit price for multiple products • Break even analysis for multiple products or services • Importance and use of cash flow projections • Budgeting and managing of finances • Computation of working capital • Inventory control and EOQ • Return on Investment (ROI) and Return on equity (ROE) <p>Unit 6: Resource Mobilization</p> <ul style="list-style-type: none"> • Angel Investor • Venture Capital Funds • Stock market- raising funds • Specialized financial institutions

Home Science	<p>Unit I- Concept of Home Science and its scope</p> <p>Unit II- Human Development: Life Span Approach (Part I)</p> <ul style="list-style-type: none"> - Introduction to different stages of development - Infancy (birth to 2 years) - Childhood characteristics and behavioral problems - Protection from preventable diseases - Substitute care at home and outside - Special Needs and care of disadvantaged and differently-abled children - Managing emergencies
Legal Studies	<p>Unit 1- Judiciary</p> <p>Unit 2- Topics of Law</p> <ul style="list-style-type: none"> A. Law of Property B. Law of Contracts C. Law of Torts D. Introduction to Criminal Laws in India E. Administrative Law <p>Unit 3- Arbitration, tribunal Adjudication and Alternate Dispute Resolution</p> <p>Unit 4- Human Rights in India</p> <p>Unit 5- Legal Profession in India</p> <ul style="list-style-type: none"> A. Introduction B. History of Legal Profession in India <ul style="list-style-type: none"> Classification of Lawyers: Roles and Functions The Advocates' Act, 1961 The Bar Council of India Lawyers and Professional Ethics Professional Duties of an Advocate Advertising by Lawyers Opportunities for Law graduates Legal Education in India Liberalization of the Legal Profession Women and the Legal Profession in India (Page 164-165 of the Text)
Sociology	<p>Book-Indian Society)-</p> <p>The Demographic Structure of the Indian Society</p> <ul style="list-style-type: none"> • Social Institutions: Continuity and Change • Market as a Social Institution • Patterns of Inequality and Discrimination • The Challenges Cultural Diversity <p>Practicals-Project File, Viva, Research Design</p>

Political Science	<p>Maps Cartoons Para.. Text To Be Read Thoroughly....</p> <p><u>Book 1 India After Independence</u> Chapt 1 To 9 Whole Book All Qns Answers And Details Given Will Be Tested. The Whole Text Is Completed. Hence Will Be Tested.</p> <p><u>Book 2 Contemporary World Politics</u> Chapt 1 Cold War Chapt 2 End Of Bipolarity International Organisations.. Uno(Ch 6) All Handouts And Notes Q/ A To Be Done.</p>																				
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Geography	<p><u>Book 1 - India People And Ecoinomy</u> Chapter 1- Population : Distribution, Density, Growth And Composition Chapter 2- Migration : Types, Causes And Consequences Chapter 3- Human Development Chapter 4- Human Settlement Chapter 5- Land Resources And Agriculture Chapter 6- Water Resources Chapter 7- Mineral And Energy Resources Chapter 8- Manufacturing Industries Chapter 9- Planning And Sustainable Development In Indian Context Chapter 10- Transport And Communication Chapter 11- International Trade Chapter 12- Geographical Perspective On Selected Issues And Problems</p>																				

	<p><u>Geography Practicals</u></p> <ol style="list-style-type: none"> 1. Measurement Of Central Tendencies <ol style="list-style-type: none"> i. Mean ii. Median iii. Mode 2. Field Survey
Fashion Studies	<p>Unit 1- History Of Fashion</p> <p>Unit 2- Basic Pattern Making</p>
Physical Education	<ol style="list-style-type: none"> 1-Sports environment and society 2-Adventure sports and leadership training 3- Sports and nutrition 4 Planning in sports 5 - Postures 6- Children and sports 7-Test and measurement in sports