

# **ST. LUIGI SCHOOL, BARRACKPORE**

## **Class X/ Split Up Syllabus/2023-2024**

SUBJECT	UNIT TEST - I	HALF YEARLY EXAMINATION	HALF YEARLY PROJECT WORK	UNIT TEST - II	ANNUAL EXAMINATION	ANNUAL PROJECT WORK
<b>COMPUTER APPLICATIONS</b>	<ul style="list-style-type: none"> <li>1. Revision of Class IX Syllabus</li> </ul>	<ul style="list-style-type: none"> <li>2. Library Classes</li> <li>3. Arrays</li> <li>4. String Handling</li> </ul>	<ul style="list-style-type: none"> <li>Type Any 10 Programs along with the Variable Descriptions in Blue J and take a print out of them.</li> </ul>	<ul style="list-style-type: none"> <li>5. User Defined Methods</li> <li>6. Class as The Basis of All Computation</li> </ul>	<ul style="list-style-type: none"> <li>7. Constructor</li> <li>8. Encapsulation</li> </ul>	<ul style="list-style-type: none"> <li>Type any 10 Programs and take a print out of them (Total 20 Programs Should be there in the Project File)</li> </ul>
<b>BIOLOGY</b>	<ul style="list-style-type: none"> <li>Ch-4 Absorption by Roots- The Process Involved</li> <li>Ch-5 Transpiration</li> <li>Ch-6 Photosynthesis</li> <li>Ch-7 Chemical coordination in plants</li> </ul>	<ul style="list-style-type: none"> <li>Ch-2 Structure of chromosomes, cell cycle and cell division</li> <li>Ch-3 Genetics- Some Basic Fundamentals</li> <li>Ch-8 The Circulatory System</li> <li>Ch-9 The Excretory System</li> <li>Ch-14 Human Evolution</li> </ul>	<ul style="list-style-type: none"> <li>1. Observation of Permanent Slides of stages of Mitosis.</li> <li>2. Experiments demonstrating: <ul style="list-style-type: none"> <li>✓ Diffusion: using Potassium Permanganate in water.</li> <li>✓ Osmosis: Thistle Funnel experiment and Potato Osmoscope.</li> <li>✓ Absorption: using a small Herbaceous plant.</li> </ul> </li> <li>3. Experiments on Transpiration: <ul style="list-style-type: none"> <li>✓ Demonstration of the process using a Bell Jar.</li> <li>✓ Demonstration of uptake of water and the rate of Transpiration using Ganong's potometer.</li> </ul> </li> <li>4. Experiments on Photosynthesis: <ul style="list-style-type: none"> <li>✓ To show the necessity of light, carbon dioxide and Chlorophyll for Photosynthesis.</li> <li>✓ To show the release of O<sub>2</sub> during Photosynthesis using Hydrilla / Elodea.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Ch- 10 The Nervous System</li> <li>Ch-11 Sense Organs</li> <li>Ch-12 The Endocrine System</li> <li>Ch-15 Population - The Increasing Numbers and Rising Problems</li> <li>Ch-16 Pollution- A Rising Environmental Problems</li> </ul>	<ul style="list-style-type: none"> <li>Ch-13 The Reproductive System</li> </ul>	<ul style="list-style-type: none"> <li>1. Identification of the structures of the Urinary System, Heart and Kidney (internal structure) and Brain (external view) through models and charts.</li> <li>2. Identification of the internal structure of the Ear and Eye (Through models and charts).</li> </ul>
<b>PHYSICAL EDUCATION</b>	<b>Theory-</b>	<b>Theory-</b> <ul style="list-style-type: none"> <li>1. Physical Fitness</li> </ul>	<ul style="list-style-type: none"> <li>1. History of Volleyball</li> </ul>	<b>Theory-</b> <ul style="list-style-type: none"> <li>6. Safety in Sports</li> </ul>	<b>Theory-</b>	<ul style="list-style-type: none"> <li>1. History of Badminton</li> </ul>

	<ul style="list-style-type: none"> <li>1. Human Growth and Development</li> <li>2. Physical Education</li> <li>3. Body Types</li> </ul> <b>Practical-</b> <ul style="list-style-type: none"> <li>1. Football</li> <li>2. Cricket</li> <li>3. Basket Ball</li> <li>4. Badminton</li> </ul>	<ul style="list-style-type: none"> <li>2. Sports Training</li> </ul> <b>Practical-</b> <ul style="list-style-type: none"> <li>1. Volleyball</li> <li>2. Physical Efficiency Tests ( 50 M Run, Standing Long Jump, Distance Run-1000m Run(B) 600m (G))</li> </ul>	<ul style="list-style-type: none"> <li>2. Draw A Neat and Clean Diagram and Mention the Measurements Including Net, Poles, Antenna and Ball.</li> <li>3. Fundamental Skills of Volleyball - A) Underhand Service B) Over Head Pass</li> </ul>	<ul style="list-style-type: none"> <li>7. Health Education</li> </ul> <b>Practical-</b> <ul style="list-style-type: none"> <li>Physical Efficiency Test- A) Floor Push Ups (Boys) B) Push Up (Girls) C) Shuttle Run D) 30 Second Sit Up</li> </ul>	<ul style="list-style-type: none"> <li>8. Careers in Physical Education</li> </ul> <b>Practical-</b> <ul style="list-style-type: none"> <li>Specialization A) Track Event Boys-100m Girls-50m B) Field Event Boys-Long Jump Girls-Long Jump</li> </ul>	<ul style="list-style-type: none"> <li>2. Draw A Sketch of Badminton Court Including All Kind of Measurement Including Poles, Net</li> <li>3. Fundamental Skills of Badminton- A) Grip (Forehand Grip and Backhand Grip) B) Serve (High Serve, Low Serve)</li> </ul>
<b>HISTORY &amp; CIVICS</b>	<b>History</b> <ul style="list-style-type: none"> <li>L-1 The First War of Independence (1857) The Contemporary World</li> <li>L-11 The First World War.</li> </ul> <b>Civics</b> <ul style="list-style-type: none"> <li>L-1 The Union Parliament.</li> </ul>	<b>History</b> <ul style="list-style-type: none"> <li>L-2 Factors Leading to The Growth of Nationalism and Foundation of The Indian National Congress.</li> <li>L-3 Objectives and Methods of Struggle of The Early Nationalists.</li> <li>L-4 Second Phase of The Indian National Movement: Partition of Bengal and Other Developments.</li> <li>L-5 Muslim League and Its Objectives The Contemporary World</li> <li>L-12 Rise of Dictatorships: Fascism in Italy and Nazism in Germany. Civics</li> <li>L-2 The Union Executive: The President and The Vice- President.</li> </ul>	<ul style="list-style-type: none"> <li>Compare The Parliamentary and Presidential Forms of Government with Reference to India and The U.S.A.</li> </ul>	<b>History</b> <ul style="list-style-type: none"> <li>L-6 National Movement During the First World War: Lucknow Pact and Other Developments.</li> <li>L-9 Subhas Chandra Bose, Forward Bloc and The Indian National Army (INA) The Contemporary World</li> <li>L-13 The Second World War (1939-1945)</li> </ul> <b>Civics</b> <ul style="list-style-type: none"> <li>L-3 The Union Executive: The Prime Minister, The Union Cabinet and The Council of Ministers.</li> </ul>	<b>History</b> <ul style="list-style-type: none"> <li>L-7 National Movement: 1919-1934 ( Non- Cooperation Movement, Civil Disobedience Movement and Other Forces at Work)</li> <li>L-8 The Cripps Mission and The Quit India Movement.</li> <li>L-10 Independence and The Partition of India. The Contemporary World</li> <li>L-14 United Nations Organisation: Origin, Objectives and The Principal Organs.</li> <li>L-15 Major Agencies of The United Nations</li> <li>L-16 The Non-Aligned Movement. Civics</li> <li>L-4 The Union Judiciary: The Supreme Court.</li> <li>L-5 The State Judiciary: The High Courts</li> <li>L-6 The Subordinate Courts.</li> </ul>	<ul style="list-style-type: none"> <li>Present A Life Sketch and Contribution of Dr. Rajendra Prasad.</li> </ul>
<b>ECONOMIC APPLICATIONS</b>	<ul style="list-style-type: none"> <li>Chapter 1 - Theory of Demand</li> <li>Chapter 2 - Theory of Supply</li> </ul>	<ul style="list-style-type: none"> <li>Chapter 4 – Land</li> <li>Chapter 5 – Labour</li> <li>Chapter 6 - Capital</li> <li>Chapter 7 – Enterprise</li> <li>Chapter 8 - Alternative Market Structures</li> </ul>	<ul style="list-style-type: none"> <li>1. Make a list of products for which you think demand is Price Inelastic and Price Elastic. Specify the reasons you may think relevant for your analysis.</li> <li>2. Take a case of FMCG - fast moving consumer goods -</li> </ul>	<ul style="list-style-type: none"> <li>Chapter 9 - The State and Economic Development</li> </ul>	<ul style="list-style-type: none"> <li>Chapter 10 - Money and Banking</li> </ul>	<ul style="list-style-type: none"> <li>1. Take a case of Public Enterprise which is about to be Privatized or has been recently Privatized. Analyses the Pros and Cons of such an Exercise undertaken by the Government.</li> </ul>

			shampoos. analyse as to how the market for these products is characterized by product differentiation.			<ul style="list-style-type: none"> <li>2. Take a case of a Nationalised Bank. Analyse the main functions of this Bank's Branch. Make A Presentation to this effect.</li> </ul>
<b>PHYSICS</b>	<ul style="list-style-type: none"> <li>Chapter 1 – Force</li> <li>Chapter 2 - Work Energy and Power</li> </ul>	<ul style="list-style-type: none"> <li>Chapter 3 – Machines</li> <li>Chapter 4 - Refraction of Light at Plane Mirror</li> <li>Chapter 5 - Refraction Through a Lens</li> <li>Chapter 6 – Spectrum</li> <li>Chapter 7 – Sound</li> <li>Chapter 12 - Radioactivity</li> </ul>	<ul style="list-style-type: none"> <li>1. To Verify Ohm's Law and hence to Determine the Resistance of a given Conductor Wire.</li> <li>2.To Trace the Path of Different Rays of Light Refracting through a Rectangular Glass Slab at different Angles of Incidence. Measure the Angles of Incidence, Refraction and Emergence also measure the Lateral Displacement.</li> </ul>	<ul style="list-style-type: none"> <li>Chapter 8 - Current Electricity</li> <li>Chapter 9 - Household Circuits</li> </ul>	<ul style="list-style-type: none"> <li>Chapter 10 – Electromagnetism</li> <li>Chapter 11 - Calorimetry</li> </ul>	<ul style="list-style-type: none"> <li>3. To determine the Focal Length of a Convex Lens using U-V method and the Lens Formula</li> <li>4.To trace the Path of A Ray of Light passing through a Glass Prism and to show that <math>I + E = A + C</math></li> </ul>
<b>GEOGRAPHY</b>	<ul style="list-style-type: none"> <li>Ch-2 Maps of India</li> <li>Ch -3 Climate</li> <li>Ch- 4 Soil Resources</li> </ul>	<ul style="list-style-type: none"> <li>Ch -1 Map Study: Interpretation of Topographical Maps</li> <li>Ch-5 Natural Vegetation</li> <li>Ch-6 Water Resources</li> <li>Ch-7 Mineral and Energy Resources</li> <li>Ch-8 Agriculture in India- I</li> <li>Ch-9 Agriculture in India -II</li> </ul>	<ul style="list-style-type: none"> <li>Environment: Wildlife Conservation Efforts in India</li> </ul>	<ul style="list-style-type: none"> <li>Ch-2 Maps of India</li> <li>Ch- 10 Manufacturing Industries: Agro Based</li> <li>Ch- 11 Manufacturing Industries: Mineral-Based</li> </ul>	<ul style="list-style-type: none"> <li>Ch- 12 Transport</li> <li>Ch-13 Waste Management- I</li> <li>Ch-14 Waste Management-II</li> </ul>	<ul style="list-style-type: none"> <li>Transport in India: Development of Road, Rail, Water and Air Routes</li> </ul>
<b>CHEMISTRY</b>	<ul style="list-style-type: none"> <li>Chapter -1: Periodic Table, Periodic Properties &amp; Variations of Properties</li> <li>Chapter -2: Chemical Bonding</li> <li>Chapter -3: Acids, Bases &amp; Salts (Up to Bases)</li> </ul>	<ul style="list-style-type: none"> <li>Chapter -3: Acids, Bases, and Salts (Remaining Portion)</li> <li>Chapter -5: Mole Concept &amp; Stoichiometry</li> <li>Chapter -6: Electrolysis</li> </ul>	<ul style="list-style-type: none"> <li>1. To Study the Action of Heat on the following Substances.</li> <li>2. To Study the Action of NaOH (Normal/Excess) on a Given Salt.</li> </ul>	<ul style="list-style-type: none"> <li>Chapter -4: Analytical Chemistry</li> <li>Chapter -7: Metallurgy</li> <li>Chapter -8: Study of the Compound: HCl.</li> </ul>	<ul style="list-style-type: none"> <li>Chapter 9 To</li> <li>Chapter -11: Study of the Compounds (Ammonia, Nitric Acid, Sulphuric Acid.</li> <li>Chapter -12: Organic Chemistry.</li> </ul>	<ul style="list-style-type: none"> <li>1. To determine Acidic or Basic for a given sample.</li> <li>2. To Study the Action of Concentrated HCl on CuO and MnO<sub>2</sub>.</li> </ul>
<b>ENGLISH LANGUAGE</b>	<ul style="list-style-type: none"> <li>1.Notice Writing.</li> <li>2. Voice Change.</li> <li>3. Letter (Formal)</li> </ul>	<ul style="list-style-type: none"> <li>1. Letter (Informal)</li> <li>2. Email.</li> <li>3. Composition</li> <li>4. Tense</li> <li>5. Subject Verb Agreement</li> <li>6.Comprehension (Summary Writing)</li> <li>7.Prepositions.</li> </ul>	<ul style="list-style-type: none"> <li>Speaking Skills.</li> </ul>	<ul style="list-style-type: none"> <li>1. Transformation of Sentences.</li> <li>2. Functional Grammar</li> <li>3. Picture Composition.</li> </ul>	<ul style="list-style-type: none"> <li>1. Editorial Letter.</li> <li>2. Transformation of Sentences.</li> <li>3. Synthesis of Sentences.</li> </ul>	<ul style="list-style-type: none"> <li>Listening Skills.</li> </ul>

		<ul style="list-style-type: none"> <li>8.Direct and Indirect Speech.</li> </ul>				
<b>ENGLISH LITERATURE</b>	<ul style="list-style-type: none"> <li>Poem- Abou Ben Adhem</li> <li>Prose- My Greatest Olympic Prize</li> <li>Drama- Act III Scene II</li> </ul>	<b>Poem-</b> <ul style="list-style-type: none"> <li>I know why the Caged Bird sings</li> <li>The Patriot</li> </ul> <b>Prose-</b> <ul style="list-style-type: none"> <li>The Little Match Girl</li> <li>Blue Bead</li> </ul> <b>Drama-</b> <ul style="list-style-type: none"> <li>Act III Scene III, IV</li> </ul>	<ul style="list-style-type: none"> <li>Topic to be given in the Class as per Council suggestions</li> </ul>	<b>Poem-</b> <ul style="list-style-type: none"> <li>Nine Gold Medals</li> </ul> <b>Prose-</b> <ul style="list-style-type: none"> <li>All Summer in a day</li> </ul> <b>Drama</b> <ul style="list-style-type: none"> <li>Act III Scene V</li> </ul>	<b>Drama-</b> <ul style="list-style-type: none"> <li>Act IV &amp; Act V <b><u>From Class IX</u></b></li> </ul> <b>Poem-</b> <ul style="list-style-type: none"> <li>Daffodils</li> </ul> <b>Prose-</b> <ul style="list-style-type: none"> <li>An Angel in disguise</li> </ul> <b>Drama-</b> <ul style="list-style-type: none"> <li>Act III Scene I</li> </ul>	<ul style="list-style-type: none"> <li>Topic to be given in the Class as per Council suggestions</li> </ul>
<b>MATHEMATICS</b>	<ul style="list-style-type: none"> <li>Ch-5 Quadratic Equations in one variable</li> <li>Ch-9 Arithmetic Progression</li> <li>Ch-4 Linear Inequations</li> <li>Ch-6 Factorisation</li> <li>Ch-8 Matrices</li> <li>Ch-13 Similarity</li> </ul>	<ul style="list-style-type: none"> <li>Ch-10 Reflection</li> <li>Ch-15 Circle</li> <li>Ch-18 Trigonometric Identities</li> <li>Ch-20 Heights and Distances</li> <li>Ch-16 Constructions</li> <li>Ch-11 Section Formula</li> <li>Ch-12 Equation of a straight line</li> <li>Ch-7 Ratio and Proportion</li> <li>Ch-9 Arithmetic Progressions</li> <li>Ch-17 Mensuration</li> </ul>	<ul style="list-style-type: none"> <li>Survey of various types of Bank accounts, rates of interest offered.</li> </ul>	<ul style="list-style-type: none"> <li>Ch-2 Banking</li> <li>Ch-22 Probability</li> </ul>	<ul style="list-style-type: none"> <li>Ch-21 Measures of Central tendency</li> <li>Ch-1 Goods and Service Tax (GST)</li> </ul>	<ul style="list-style-type: none"> <li>Planning a home budget.</li> </ul>
<b>VALUE EDUCATION</b>		<ul style="list-style-type: none"> <li>Ch-1 Emotional Maturity</li> <li>Ch-2 Take Charge</li> <li>Ch-4 The Sacred Space Within Me</li> <li>Ch-5 Increase Your Response Options</li> <li>Ch-7 The Web of Relationships</li> </ul>			<ul style="list-style-type: none"> <li>Ch-8 Creative Leaderships</li> <li>Ch-10 Enemies Within Your Home</li> <li>Ch-11 Career Guidance</li> <li>Ch-12 Cinema – A Mixed Package</li> <li>Ch-13 Let us Celebrate our Togetherness</li> </ul>	
<b>SUPW</b>	<b>MAIN CRAFTS/SERVICES (Any One)</b> <ul style="list-style-type: none"> <li>Pottery</li> <li>Weaving</li> <li>Knitting</li> <li>Hosiery Work</li> <li>Embroidery Work</li> <li>Dress Designing</li> <li>Leatherwork</li> <li>Making Toys and Puppets</li> <li>Photography</li> </ul> <b>SUBSIDIARY CRAFTS/SERVICES (Any One)</b> <ul style="list-style-type: none"> <li>Construction of Decorative Pieces</li> <li>Plaster of Paris Work</li> <li>Dyeing and Printing;</li> <li>Making Costumes</li> <li>Holding Exhibitions</li> </ul>					