

Release of

**TOPICS**

**2021 Examinations**

The Caribbean Examinations Council® (CXC®), in response to the needs of its stakeholders amidst the challenges presented by COVID-19, has prepared this document outlining the main areas of study for the June/July 2021 examinations.

The main areas of study are being provided to assist with examination preparation for Papers 02 and 032 and they do not represent the actual questions that will be on the examinations. Candidates are reminded that comprehensive knowledge of the syllabus is critical in preparation for the CXC® examinations as the multiple-choice paper will continue to assess the entire syllabus.

## CARIBBEAN SECONDARY EDUCATION CERTIFICATE® (CSEC®)

### MAIN AREAS OF FOCUS FOR JUNE/JULY 2021 EXAMINATIONS – PAPERS 02 AND 032

SUBJECT	PAPER 02	PAPER 03/032
Additional Mathematics	<p><i>Algebra, Sequences and Series</i></p> <ul style="list-style-type: none"> <li>• Remainder Theorem</li> <li>• Factor Theorem</li> <li>• Quadratics</li> <li>• Inequalities</li> <li>• Surds, Indices and Logarithms</li> <li>• Sequences and Series</li> </ul> <p><i>Coordinate Geometry, Vectors and Trigonometry</i></p> <ul style="list-style-type: none"> <li>• Coordinate Geometry</li> <li>• Vectors, to include unit vectors</li> <li>• Trigonometry, to include use of compound/double angle formula</li> </ul> <p><i>Introductory Calculus</i></p> <ul style="list-style-type: none"> <li>• Differentiation, to include stationary values and Kinematics</li> <li>• Integration, to include area under curve and Kinematics</li> </ul> <p><i>Probability and Statistics</i></p> <ul style="list-style-type: none"> <li>• Probability theory, including solving probability problems using sample/possibility space diagrams</li> <li>• Data representation and analysis</li> </ul>	Any section or combination of sections

SUBJECT	PAPER 02	PAPER 03/032
Agricultural Science (Double Award)	<ol style="list-style-type: none"> <li>1. Land Preparation and Farm Machinery</li> <li>2. Crop Management – Disease Control</li> <li>3. Animal Nutrition and Management – Animal ration</li> <li>4. Animal Products</li> <li>5. Farm Organization and Planning</li> <li>6. Marketing of Agricultural Products</li> <li>7. Bee Management and Production</li> </ol>	<ol style="list-style-type: none"> <li>1. Environmental Monitoring</li> <li>2. Technologies for Non-conventional Crop Production</li> <li>3. Management Practices for Livestock – Pest and Disease</li> <li>4. Harvesting, Post-harvesting Management and Value Addition</li> <li>5. Post-production Handling and Processing of Livestock</li> <li>6. Agro-engineering – Farm Structures and Farm Buildings</li> <li>7. Entrepreneurship in Agriculture – Financial Statements and SWOT Analysis</li> <li>8. Communication in Agri-business</li> </ol>
Agricultural Science (Single Award)	<ol style="list-style-type: none"> <li>1. Land Preparation and Farm Machinery</li> <li>2. Crop Management</li> <li>3. Animal Nutrition and Management</li> <li>4. Animal Products</li> <li>5. Farm Organization and Planning</li> <li>6. Marketing of Agricultural Products</li> <li>7. Bee Management and Production</li> </ol>	Not applicable
Biology	<ol style="list-style-type: none"> <li>1. Nutrition</li> <li>2. Biotic and Abiotic factors</li> <li>3. Food Chains</li> <li>4. Predator/Prey Relationships</li> <li>5. Decomposers</li> <li>6. Treatment and Control of Diseases</li> <li>7. Transport</li> <li>8. Excretion</li> <li>9. Reproduction</li> <li>10. Continuity and Variation</li> </ol>	<ol style="list-style-type: none"> <li>1. Food Tests</li> <li>2. Ecological Study and Appropriate Sampling Methods</li> <li>3. The Eye</li> <li>4. Disease</li> </ol>

SUBJECT	PAPER 02	PAPER 03/032
Caribbean History	<p><b><u>Theme 1 — The Indigenous Peoples and the Europeans</u></b></p> <ul style="list-style-type: none"> <li>• Kalinago</li> <li>• Maya</li> <li>• Taino</li> </ul> <p><b><u>Theme 2 — Caribbean Economy and Slavery</u></b></p> <ul style="list-style-type: none"> <li>• Effects of the Slave Trade, and Slavery on West African and the Caribbean</li> <li>• Systems of Labour in the Caribbean</li> <li>• The Triangular Trade</li> </ul> <p><b><u>Theme 3 — Resistance and Revolt</u></b></p> <ul style="list-style-type: none"> <li>• Haitian Revolution</li> <li>• Demerara Revolt</li> </ul> <p><b><u>Theme 4 — Metropolitan Movements Towards Emancipation</u></b></p> <ul style="list-style-type: none"> <li>• The Emancipation Act</li> <li>• Apprenticeship</li> </ul> <p><b><u>Theme 5 — Adjustments to Emancipation, 1838–1876</u></b></p> <ul style="list-style-type: none"> <li>• Chinese Immigration</li> <li>• Establishment of the Peasantry</li> </ul> <p><b><u>Theme 6 — Caribbean Economy, 1875–1985</u></b></p> <ul style="list-style-type: none"> <li>• The Decline of the Sugar Industry</li> <li>• The Bauxite and Petroleum Industries in the Caribbean</li> </ul> <p><b><u>Theme 7 — The United States in the Caribbean, 1776–1985</u></b></p> <ul style="list-style-type: none"> <li>• The United States in Puerto Rico</li> <li>• The Grenada Invasion</li> </ul> <p><b><u>Theme 8 — Caribbean Political Development up to 1985</u></b></p> <ul style="list-style-type: none"> <li>• The West Indies Federation</li> <li>• The Status of the Netherland Antilles</li> </ul> <p><b><u>Theme 9 — Caribbean Society, 1900–1985</u></b></p> <ul style="list-style-type: none"> <li>• Marcus Garvey and the UNIA</li> <li>• Cultural and Recreational Practices of Caribbean Peoples</li> </ul>	The Indigenous People of the Americas

SUBJECT	PAPER 02	PAPER 03/032
Chemistry	<ol style="list-style-type: none"> <li>1. Atomic Structure</li> <li>2. Periodic Table and Periodicity</li> <li>3. Mole Concept</li> <li>4. Acids, Bases and Salts</li> <li>5. Electrochemistry</li> <li>6. Sources of Hydrocarbon Compounds</li> <li>7. Organic Chemistry – An Introduction</li> <li>8. Reactions of Carbon Compounds</li> <li>9. Non-metals</li> <li>10. Qualitative Analysis</li> </ol>	<ol style="list-style-type: none"> <li>1. Mole Concept</li> <li>2. Acids, Bases and Salts</li> <li>3. Rates of Reaction</li> <li>4. States of Matter</li> </ol>
Economics	<ol style="list-style-type: none"> <li>1. Production, Economic Resources and Resource Allocation</li> <li>2. Demand and Supply</li> <li>3. Market Structure and Market Failure</li> <li>4. The Financial Sector</li> <li>5. International Trade</li> </ol>	<ol style="list-style-type: none"> <li>1. The Nature of Economics</li> <li>2. Production, Economic Resources and Resource Allocation</li> <li>3. The Financial Sector</li> <li>4. Economics Management: Policies and Goals</li> <li>5. Caribbean Economies in a Global Environment</li> </ol>
Electronic Document Preparation and Management	<ol style="list-style-type: none"> <li>1. Candidates must be familiar with creating documents using the following software programs: <ul style="list-style-type: none"> <li>• Word processing</li> <li>• Spreadsheet</li> <li>• Data management</li> </ul> </li> <li>2. Candidates must be familiar with the following: <ul style="list-style-type: none"> <li>• Letter and memorandum layouts (blocked, semi-blocked, indented)</li> <li>• Displays</li> <li>• Tabular work</li> <li>• Insertion of graphics</li> <li>• Manuscript signs</li> <li>• Creating charts</li> <li>• Creating and manipulating databases</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Candidates must be familiar with creating documents using the following software programs: <ul style="list-style-type: none"> <li>• Word processing</li> <li>• Data management</li> </ul> </li> <li>2. Candidates must be familiar with the following: <ul style="list-style-type: none"> <li>• Letter and memorandum layouts (blocked, semi-blocked, indented)</li> <li>• Displays</li> <li>• Tabular work</li> <li>• Insertion of graphics</li> <li>• Manuscript signs</li> <li>• Creating and manipulating databases</li> </ul> </li> </ol>

SUBJECT	PAPER 02	PAPER 03/032
English A	<ol style="list-style-type: none"> <li>1. Section A consists of one compulsory question – informative discourse (summary).</li> <li>2. Section B consists of one compulsory question – informative discourse (exposition).</li> <li>3. Section C consists of two optional questions. These questions require candidates to produce a short story.</li> <li>4. Section D consists of one compulsory argumentative essay question.</li> </ol>	
English B	<p>This paper is divided into three sections:</p> <ul style="list-style-type: none"> <li>• Section A – Drama (Shakespeare and Modern Drama). This section consists of TWO Type A questions, ONE on each text.</li> <li>• Section B – Poetry. This section consists of TWO Type B questions, one generic question allowing candidates to use two appropriate choices from the prescribed poems and one question based on two named poems from the prescribed list.</li> <li>• Section C – Prose Fiction (EITHER West Indian novel OR other novels in English OR West Indian short story and other short stories in English). This section consists of FOUR questions: TWO Type A questions, ONE on each prescribed novel and TWO Type B questions, one generic question allowing candidates to use two appropriate choices from the prescribed short stories and one question based on two named short stories from the prescribed list.</li> </ul>	<p>This paper will consist of a guided critique of three pieces of stimulus material:</p> <ol style="list-style-type: none"> <li>1. An excerpt from a recent newspaper article on a topical issue</li> <li>2. A cartoon strip or lyrics to a song on the same topical issue</li> <li>3. A poem, short story, public speech (extract) on the same issue</li> </ol>

SUBJECT	PAPER 02	PAPER 03/032
Family and Resource Management	<ol style="list-style-type: none"> <li>1. Roles and Functions of the Family</li> <li>2. Changes in Relationships in the Family</li> <li>3. Management Principles, Processes and Applications</li> <li>4. Values, Goals and Attitudes</li> <li>5. Work Simplification and Time Management</li> <li>6. Consumerism</li> <li>7. Management of Special Events</li> <li>8. Leisure</li> <li>9. Housing</li> <li>10. Environmental Hazards Management</li> </ol>	Not applicable



SUBJECT	PAPER 02	PAPER 03/032
Food, Nutrition and Health	<ol style="list-style-type: none"> <li>1. Dietary Guidelines for the Caribbean</li> <li>2. Community Nutrition</li> <li>3. Principles of Nutrition</li> <li>4. Carbohydrates, Fats and Proteins in the diet</li> <li>5. Vitamins and Minerals</li> <li>6. Conservation of Vitamins in Food Preparation</li> <li>7. Health Conditions Associated with an Improper Intake of Water</li> <li>8. Meal Planning for different groups</li> <li>9. Vegetarians</li> <li>10. Food Spoilage and Contamination</li> <li>11. Microorganisms that Contaminate Food</li> <li>12. Food-borne Illnesses</li> <li>13. Methods of Preservation</li> <li>14. Planning the Layout and Design of a Kitchen</li> <li>15. Large Kitchen Equipment</li> <li>16. Accidents in the Kitchen</li> <li>17. Interpreting Information on the Food Label</li> <li>18. Adding Nutrients back to Processed Foods</li> <li>19. Food Preparation Skills</li> <li>20. First Aid</li> <li>21. Energy Conservation</li> <li>22. Food Labels</li> <li>23. Herbs and Spices</li> </ol>	Not applicable
French	<p>A written paper in four sections, one question in each section.</p> <p>Section I: Requires candidates to provide written responses in the target language to a series of situations described in English.</p>	Not applicable

SUBJECT	PAPER 02	PAPER 03/032																												
	<p>Of the following functions, ten will appear in the situational responses.</p> <table border="0"> <tr> <td>Advising</td> <td>Expressing good</td> </tr> <tr> <td>Accepting and declining</td> <td>Expressing gratitude</td> </tr> <tr> <td>Apologizing</td> <td>Expressing surprise</td> </tr> <tr> <td>Asking permission</td> <td>Giving reasons</td> </tr> <tr> <td>Asking questions</td> <td>Identifying</td> </tr> <tr> <td>Borrowing</td> <td>Instructing</td> </tr> <tr> <td>Congratulating</td> <td>Introducing</td> </tr> <tr> <td>Consoling</td> <td>Inviting</td> </tr> <tr> <td>Describing</td> <td>Promising</td> </tr> <tr> <td>Explaining</td> <td>Recommending</td> </tr> <tr> <td>Expressing disappointment</td> <td>Reminding</td> </tr> <tr> <td>Expressing doubt</td> <td>Requesting</td> </tr> <tr> <td>Expressing fear/wishes</td> <td>Threatening</td> </tr> <tr> <td></td> <td>Warning</td> </tr> </table> <p>Section II: Requires candidates to write an informal letter of about 130–150 words in the target language. Topic: Sharing with a friend your experience of a recent trip.</p> <p>Section III: Requires candidates to write a contextual dialogue of between 80 and 100 words, and to complete information using cues in English. Topic: An interview promoting an upcoming activity</p> <p>Section IV: Requires candidates to answer questions in English, based on a Reading Comprehension passage in the target language. Topic: A teacher’s experience on a visit to Paris</p>	Advising	Expressing good	Accepting and declining	Expressing gratitude	Apologizing	Expressing surprise	Asking permission	Giving reasons	Asking questions	Identifying	Borrowing	Instructing	Congratulating	Introducing	Consoling	Inviting	Describing	Promising	Explaining	Recommending	Expressing disappointment	Reminding	Expressing doubt	Requesting	Expressing fear/wishes	Threatening		Warning	
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SUBJECT	PAPER 02	PAPER 03/032
Geography	<ol style="list-style-type: none"> <li>1. Map Reading Skills</li> <li>2. Natural Systems               <ol style="list-style-type: none"> <li>a. Formation of Rocks</li> <li>b. Weathering</li> <li>c. Mass Movement</li> <li>d. Formation of Soils</li> </ol> </li> <li>3. Human Systems               <ol style="list-style-type: none"> <li>a. Islands of the Caribbean</li> <li>b. Natural Resources in the Caribbean</li> <li>c. Renewable and Non-renewable Resources</li> <li>d. Industries in the Caribbean</li> </ol> </li> <li>4. Human Environment Systems               <ol style="list-style-type: none"> <li>a. Natural Disasters</li> <li>b. Disaster Preparedness</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Map Reading Skills</li> <li>2. Research Design – Natural Fieldwork               <ol style="list-style-type: none"> <li>a. Data Presentation and Interpretation</li> <li>b. Referencing</li> </ol> </li> <li>3. Tourism</li> </ol>
Human and Social Biology	<ol style="list-style-type: none"> <li>1. Living Organisms and The Environment (Food Chains)</li> <li>2. Skeletal System</li> <li>3. Excretion and Homeostasis (Link to Chronic Lifestyle Diseases)</li> <li>4. Reproductive System</li> <li>5. Heredity and Variation, and Disease and its Impact on Humans</li> <li>6. Impact of Health Practices on the Environment (Link to Infectious Diseases)</li> </ol>	Not applicable
Industrial Technology - ELECTRICAL	<ol style="list-style-type: none"> <li>1. Electrical Principles and Measurements</li> <li>2. Electrical and Electronic Drafting</li> <li>3. Electrical Power and Machines</li> <li>4. Electrical Installation</li> <li>5. Fundamentals of Electronics</li> </ol>	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
Industrial Technology - MECHANICAL	<ol style="list-style-type: none"> <li>1. Materials, Hand Tools and Processes</li> <li>2. Graphic Communication and Design</li> <li>3. Production Engineering</li> <li>4. Metal Art Work</li> </ol>	Not applicable
Industrial Technology - BUILDING	<ol style="list-style-type: none"> <li>1. The Natural and Built Environment</li> <li>2. Site Work Operations</li> <li>3. Basic Architectural Drawings</li> <li>4. Timber Technology</li> <li>5. Building Technology</li> <li>6. Furniture Technology</li> </ol>	Not applicable
Information Technology	<ol style="list-style-type: none"> <li>1. Computer Fundamentals</li> <li>2. Networking</li> <li>3. Implications of Misuse and Cybersecurity</li> <li>4. Word Processing</li> <li>5. Spreadsheets</li> <li>6. Database</li> <li>7. Problem Solving and Programming <ul style="list-style-type: none"> <li>• Algorithms/Flowcharts and Pseudocodes</li> <li>• Trace Tables</li> <li>• Variables and Constants</li> <li>• Conditional Statements and Relational Operators (Loops)</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Word Processing</li> <li>2. Web Page Design</li> <li>3. Spreadsheets</li> <li>4. Database Management</li> <li>5. Problem Solving and Programming <ul style="list-style-type: none"> <li>• Algorithms/Flowcharts and Pseudocodes</li> <li>• Trace Tables</li> <li>• Variables and Constants</li> <li>• Conditional Statements and Relational Operators (Loops)</li> <li>• IPO Chart</li> </ul> </li> </ol>

SUBJECT	PAPER 02	PAPER 03/032
Integrated Science	<ol style="list-style-type: none"> <li>1. Water and the Aquatic Environment</li> <li>2. Electricity and Lighting</li> <li>3. Conservation of Energy</li> <li>4. Metals and Non-metals</li> <li>5. Terrestrial Environment</li> <li>6. Acids, Bases and Mixtures</li> <li>7. Health and Sanitation</li> <li>8. Fossil Fuels and Alternative Sources of Energy</li> <li>9. Food and Nutrition</li> <li>10. Respiration and Air Pollution</li> </ol>	<ol style="list-style-type: none"> <li>1. Reproduction and Growth</li> <li>2. Metals and Non-metals</li> <li>3. Terrestrial Environment</li> <li>4. Temperature Control and Ventilation</li> </ol>
Mathematics	<p>This paper consists of ten compulsory structured-type questions based on the following:            Number Theory, Consumer Arithmetic and Computation</p> <ul style="list-style-type: none"> <li>• Operations with fractions</li> <li>• Percentages</li> <li>• Ratio</li> <li>• Levels of accuracy – decimal places, significant figures, standard form</li> </ul> <p>Algebra</p> <ul style="list-style-type: none"> <li>• Symbolic representation</li> <li>• Algebraic symbols and worded expressions</li> <li>• Substitution</li> <li>• Formulas</li> <li>• Equations</li> </ul> <p>Geometry and Trigonometry</p> <ul style="list-style-type: none"> <li>• Solving Triangles</li> <li>• Transformation Geometry</li> </ul>	<ol style="list-style-type: none"> <li>1. Measurement, Geometry and Trigonometry               <ul style="list-style-type: none"> <li>• Solving Triangles</li> </ul> </li> <li>2. Relations, Functions and Graphs/ Matrices               <ul style="list-style-type: none"> <li>• Lines</li> <li>• Equation of Lines</li> <li>• Graphs of Functions</li> <li>• Operations with Matrices</li> </ul> </li> </ol>

SUBJECT	PAPER 02	PAPER 03/032
	<ul style="list-style-type: none"> <li>• Circle Geometry/Theorem</li> </ul> <p>Relations, Functions and Graphs</p> <ul style="list-style-type: none"> <li>• Lines</li> <li>• Equations of lines</li> <li>• Functions</li> <li>• Composite functions</li> <li>• Linear programming</li> <li>• Graphs of functions</li> </ul> <p>Statistics</p> <ul style="list-style-type: none"> <li>• Measures of Central Tendency</li> <li>• Probability</li> </ul> <p>Measurement</p> <ul style="list-style-type: none"> <li>• Area</li> <li>• Volume,</li> <li>• Surface Area</li> </ul> <p>Investigation</p> <ul style="list-style-type: none"> <li>• Number Theory</li> <li>• Identifying and Manipulating Patterns and Sequences</li> </ul> <p>Vectors and Matrices</p> <ul style="list-style-type: none"> <li>• Operations with Matrices</li> <li>• Inverse of Matrices</li> <li>• Position Vectors</li> <li>• Vector Geometry: Triangle Law, Parallelogram Law</li> </ul>	

SUBJECT	PAPER 02	PAPER 03/032
Music	Practical Assignment	Not applicable
Office Administration	<p>An essay paper divided into two sections:</p> <p><b><u>Section I: Three compulsory questions drawn from Sections I–VII of the syllabus.</u></b></p> <ul style="list-style-type: none"> <li>• Section II: Communication</li> <li>• Section III: Recruitment and Orientation</li> <li>• Section IV: Records and Information Management</li> <li>• Section VI: Meetings</li> <li>• Section VII: Travel Arrangements</li> </ul> <p><b><u>Section II: Three compulsory questions drawn from Sections VIII–XII.</u></b></p> <ul style="list-style-type: none"> <li>• Section VIII: Human Resources Management</li> <li>• Section IX: Accounts and Financial Services</li> <li>• Section X: Procurement and Inventory Management</li> <li>• Section XI: Sales, Marketing and Customer Service</li> <li>• Section XII: Operations, Dispatch and Transport Services</li> </ul>	<p>This paper consists of seven compulsory structured-type questions based on the following:</p> <ul style="list-style-type: none"> <li>• Section IX: Accounts and Financial Services</li> <li>• Section XI: Sales, Marketing and Customer Service</li> </ul>
Physical Education and Sport	<p>Paper 02 – Practical Assignment</p> <p>Paper 04 Topics</p> <ol style="list-style-type: none"> <li>1. History and Development of Physical Education and Sport</li> <li>2. Anatomy and Physiology</li> <li>3. Fitness and Performance</li> <li>4. Health and Nutrition</li> <li>5. Trends and Social Issues</li> </ol>	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
Physics	<ol style="list-style-type: none"> <li>1. Graph Work and Analysis of data</li> <li>2. Deformation</li> <li>3. Turning Forces</li> <li>4. Temperature</li> <li>5. Gas Laws</li> <li>6. Types of Waves</li> <li>7. Speed of Sound</li> <li>8. Reflection</li> <li>9. Refraction</li> <li>10. Critical Angle and Total Internal Reflection</li> <li>11. Alternating Current</li> <li>12. Resistance</li> <li>13. Magnetic Forces</li> <li>14. Electromagnetic Force</li> <li>15. Motors</li> <li>16. Particles in the Atom</li> <li>17. Radioactive Emissions</li> <li>18. Half-life</li> </ol>	<ol style="list-style-type: none"> <li>1. Graph Work and Analysis of Data</li> <li>2. Measurement</li> <li>3. Hydrostatics</li> <li>4. Specific Heat Capacity</li> <li>5. Resistance</li> </ol>
Portuguese	<p>A written paper in four sections, one question in each section.</p> <p>Section I: Requires candidates to provide written responses in the target language to a series of situations described in English.</p> <p>Of the following functions, ten will appear in the situational responses.</p>	Not applicable



SUBJECT	PAPER 02	PAPER 03/032
	<p>           Advising            Accepting and declining            Apologizing            Asking permission            Asking questions            Borrowing            Congratulating            Consoling            Describing            Explaining            Expressing disappointment            Expressing doubt            Expressing fear/wishes            Expressing feelings         </p> <p>           Expressing good            Expressing gratitude            Expressing surprise            Giving reasons            Identifying            Instructing            Introducing            Inviting            Promising            Recommending            Reminding            Requesting            Threatening            Warning         </p> <p>           Section II: Requires candidates to write an informal letter of about 130–150 words in the target language.            Topic: A family member is getting married         </p> <p>           Section III: Requires candidates to write a contextual dialogue of between 80 and 100 words, and to complete information using cues in English.            Topic: Providing information to a person who is visiting your town.         </p> <p>           Section IV: Requires candidates to answer questions in English, based on a Reading Comprehension passage in the target language.            Topic: Visiting an older family member and becoming victim of a robbery.         </p>	

SUBJECT	PAPER 02	PAPER 03/032
Principles of Accounts	<ol style="list-style-type: none"> <li>1. Ledgers and the Trial Balance</li> <li>2. Accounting as a System</li> <li>3. Books of Original Entry</li> <li>4. Accounting Adjustments</li> <li>5. Control Systems</li> <li>6. Preparation and Analysis of Financial Statements of the Sole Trader</li> <li>7. Accounting for Limited Liability Companies, Co-operatives and Non-Profit Organizations</li> <li>8. Accounting for the Entrepreneur</li> <li>9. Accounting for Partnerships</li> </ol>	<ol style="list-style-type: none"> <li>1. Accounting as a Profession</li> <li>2. Accounting as a System</li> <li>3. Books of Original Entry</li> <li>4. Ledgers and the Trial Balance</li> <li>5. The Preparation and Analysis of Financial Statements of the Sole Trader</li> <li>6. Accounting Adjustments</li> <li>7. Control Systems</li> <li>8. Accounting for Partnerships</li> <li>9. Accounting for Limited Liability Companies, Co-operatives and Non-Profit Organizations</li> <li>10. Manufacturing and Inventory Control</li> <li>11. Accounting for the Entrepreneur</li> </ol>
Principles of Business	<p>A structured essay paper consisting of five compulsory questions, drawn from the following areas of the syllabus</p> <p>Section 1 - The Nature of Business  Section 2 - Internal Organizational Environment  Section 5 - Production  Section 7 - Logistics and Supply Chain  Section 9 - Role of Government in an Economy</p>	<p>This paper will consist of a case from which information will be used to develop a business plan. Candidates will use the information based on questions posed on the case to complete the business plan template.</p> <p>Section A: Operational Plan  Section B: Marketing Plan  Section C: Financial Plan</p> <p>For further guidance, candidates should consult subject reports and past papers on the website.</p>

SUBJECT	PAPER 02	PAPER 03/032
Religious Education	<p>This is an essay paper consisting of four questions.</p> <p>For Option A – Christianity, the questions will be set as follows:            Question 1 – The New Testament Background to the Concept of the Reign of God            Question 2 – Different Types of Writing in the Bible            Question 3 – The Roles of God            Question 4 – The Concepts of Sin and Salvation</p> <p>For Option B – Hinduism, the questions will be set as follows:            Question 1 – The Concept of Guruhood and Discipleship            Question 2 – Hindu Teachings Applied to Personal and Social Experiences            Question 3 – Significance of the Names of God            Question 4 – The Concept of Moksha</p> <p>For Option C – Islam, the questions will be set as follows:            Question 1 – Issues Related to the Value and Dignity of Human Life            Question 2 – Purpose of Life and How to Improve the Relationship with Allah            Question 3 – Concept of Prophethood and Revelation of the Qur’an            Question 4 – Concept of Sin and Forgiveness</p> <p>For Option D – Judaism, the questions will be set as follows:            Question 1 – Concept of the Reign of God in the Tanakh            Question 2 – Transmission of the Tanakh            Question 3 – God’s Covenant and Attributes of God            Question 4 – Purpose of the Festivals</p>	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
Social Studies	<p>Section A – Answer ALL questions.</p> <ol style="list-style-type: none"> <li>1. Family</li> <li>2. Social Groups and Institutions, including Government</li> <li>3. Development and Use of Resources</li> <li>4. Regional Integration</li> </ol> <p>Section B – Answer ONE question.</p> <ol style="list-style-type: none"> <li>5. Communication</li> <li>6. Consumer Affairs</li> <li>7. Tourism</li> </ol>	<p>Five structured questions based on research activities. The paper will test candidates’ ability to employ skills of enquiry, communication, critical thinking, and decision-making.</p>
Spanish	<p>A written paper in four Sections, one question in each section.</p> <p>Section I: Requires candidates to provide written responses in the target language to a series of situations described in English.</p> <p>Of the following functions, ten will appear in the situational responses.</p>	<p>Not applicable</p>

SUBJECT	PAPER 02	PAPER 03/032																												
	<table border="0"> <tr> <td>Advising</td> <td>Expressing good</td> </tr> <tr> <td>Accepting and declining</td> <td>Expressing gratitude</td> </tr> <tr> <td>Apologizing</td> <td>Expressing surprise</td> </tr> <tr> <td>Asking permission</td> <td>Giving reasons</td> </tr> <tr> <td>Asking questions</td> <td>Identifying</td> </tr> <tr> <td>Borrowing</td> <td>Instructing</td> </tr> <tr> <td>Congratulating</td> <td>Introducing</td> </tr> <tr> <td>Consoling</td> <td>Inviting</td> </tr> <tr> <td>Describing</td> <td>Promising</td> </tr> <tr> <td>Explaining</td> <td>Recommending</td> </tr> <tr> <td>Expressing disappointment</td> <td>Reminding</td> </tr> <tr> <td>Expressing doubt</td> <td>Requesting</td> </tr> <tr> <td>Expressing fear/wishes</td> <td>Threatening</td> </tr> <tr> <td>Expressing feelings</td> <td>Warning</td> </tr> </table> <p>Section II: Requires candidates to write an informal letter of about 130–150 words in the target language. Topic: Sharing with a friend information about an event you attended.</p> <p>Section III: Requires candidates to write a contextual dialogue of between 80 and 100 words, and to complete information using cues in English. Topic: A conversation between two persons about prospective university plans</p> <p>Section IV: Requires candidates to answer questions in English, based on a Reading Comprehension passage in the target language. Topic: A friend who has a weakness</p>	Advising	Expressing good	Accepting and declining	Expressing gratitude	Apologizing	Expressing surprise	Asking permission	Giving reasons	Asking questions	Identifying	Borrowing	Instructing	Congratulating	Introducing	Consoling	Inviting	Describing	Promising	Explaining	Recommending	Expressing disappointment	Reminding	Expressing doubt	Requesting	Expressing fear/wishes	Threatening	Expressing feelings	Warning	
Advising	Expressing good																													
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SUBJECT	PAPER 02	PAPER 03/032
Technical Drawing	<p>Section 1B: Fundamentals of Technical Drawing</p> <ol style="list-style-type: none"> <li>1. Using Tools and Equipment</li> <li>2. Types of Lines</li> <li>3. Line Construction</li> <li>4. Lettering and Dimensioning Techniques</li> <li>5. Scales</li> <li>6. Freehand Sketching</li> </ol> <p>Section 3A: Building Drawing (Site Plan and Roof Detail)</p> <ol style="list-style-type: none"> <li>1. Types of Drawings used in the Building Industry</li> <li>2. Types of Architectural Drawings</li> <li>3. Standard Architectural Practices</li> <li>4. Architectural Drawings</li> </ol> <p>Section 3B: Mechanical Engineering (General Assembly four parts)</p> <ol style="list-style-type: none"> <li>1. Engineering Drawing Standard</li> <li>2. Engineering Materials</li> <li>3. Conventional Representation of Standard Engineering Components</li> <li>4. Symbols of Machine Parts</li> <li>5. Engineering Drawings</li> </ol>	Not applicable
Textiles, Clothing and Fashion	<ol style="list-style-type: none"> <li>1. Factors to Consider in Selecting Fabrics</li> <li>2. Classification of Textile Fibres</li> <li>3. Yarn Construction</li> <li>4. Physical Structure and Properties of Fibres</li> <li>5. Tests for Fibres</li> <li>6. Fabric Construction</li> <li>7. The Colour Wheel</li> <li>8. Terms Relating to Colour</li> <li>9. Using Laundry Processes and Equipment</li> <li>10. Storing Garments and Household Articles</li> <li>11. Repairing and Recycling Garments and Household Items</li> </ol>	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
	12. Management Principles 13. Reasons for Choosing Clothing 14. Clothing in Ceremonial Rites and Festivals 15. Selecting Clothing 16. Careers in the Clothing and Textile Industries 17. Elements and Principles of Design 18. Wardrobe Planning 19. Soft Furnishings 20. Equipment, Tools and Supplies 21. Principles of Fashion Sketching and Drawing 22. Creating Different Illusions using Silhouettes, Lines and Colours 23. Stitches 24. Processes, Methods and Techniques used in Clothing Construction 25. Seams and Seam Finishes 26. Constructing Soft Furnishings	
Theatre Arts	Practical Assignment	This paper will consist of TWO compulsory questions, with focus on critiquing a play or dance, and the research.
Visual Arts	There are EIGHT Expressive Forms, five are two-dimensional and three are three-dimensional forms. Each expressive form will be assessed by FOUR questions. Candidates are required to respond to ONE question from each of the expressive forms studied.	Not applicable

## CARIBBEAN ADVANCED PROFICIENCY EXAMINATION® (CAPE®) UNIT I

### MAIN AREAS OF FOCUS FOR JUNE/JULY 2021 EXAMINATIONS – PAPERS 02 AND 032

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Accounting	<ol style="list-style-type: none"> <li>1. The Nature and Scope of Financial Accounting</li> <li>2. Accounting Methods</li> <li>3. Recording Financial Information</li> <li>4. Technology and Financial Accounting Corporations</li> <li>5. Forms of Business Organization</li> <li>6. Accounting for Changes in Partnership</li> <li>7. Incorporation of an Unincorporated Business</li> <li>8. Inflation and Accounting</li> <li>9. Contingencies and Events after the end of the Reporting Period</li> <li>10. Preparation of Statements of Cash Flow</li> </ol>	<ol style="list-style-type: none"> <li>1. Accounting Standards</li> <li>2. Accounting and Administrative Control Systems</li> <li>3. Technology and Financial Accounting</li> <li>4. Corporations</li> <li>5. Corporation Tax</li> <li>6. Statement of Financial Preparations</li> <li>7. Ratio Analysis</li> <li>8. Liquidation and Receivership</li> </ol>
Agricultural Science	<ol style="list-style-type: none"> <li>1. Plant Processes and Crop Production</li> <li>2. Agricultural Production Systems</li> <li>3. Propagating Orchard Crops</li> <li>4. Turf Grass Management</li> <li>5. Ornamental Horticulture Production</li> <li>6. Marketing Crop Commodities</li> <li>7. Technology in Agriculture</li> </ol>	Not applicable



SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Animation and Game Design	<ol style="list-style-type: none"> <li>1. Game Genres</li> <li>2. Economic Value of Games and Animation</li> <li>3. Associated Risks for the Industry</li> <li>4. Motion Analysis</li> <li>5. Life Drawing</li> <li>6. Synopsis Development</li> <li>7. Narratives</li> <li>8. Character Theory and Design</li> <li>9. Drawing Perspectives</li> <li>10. Depth of Fields</li> </ol>	Not applicable
Applied Mathematics	<ol style="list-style-type: none"> <li>1. Data Collection</li> <li>2. Data Analysis</li> <li>3. Probability Theory</li> <li>4. Random Variables</li> <li>5. Binomial Distribution</li> <li>6. Normal Distribution</li> <li>7. Sampling Distribution and Estimation</li> <li>8. Hypothesis testing</li> <li>9. T-test</li> <li>10. Chi-square Test</li> </ol>	<ol style="list-style-type: none"> <li>1. Sources of Data</li> <li>2. Data Collection</li> <li>3. Data Analysis</li> <li>4. Probability Theory</li> <li>5. Random Variables</li> <li>6. Binomial Distribution</li> <li>7. Normal Distribution</li> <li>8. Sampling Distribution and Estimation</li> <li>9. T-test</li> <li>10. Correlation and Linear Regression – Bivariate Data</li> </ol>
Art and Design	Production Papers Paper 02 – Two-dimensional art design Paper 03 – Three-dimensional art design	Not applicable

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Biology	<ol style="list-style-type: none"> <li>1. Aspects of Biochemistry</li> <li>2. Cell Structure and Functions</li> <li>3. Structure and Roles of Nucleic Acids</li> <li>4. Cell Division and Variation</li> <li>5. Aspects of Genetic Engineering</li> <li>6. Reproduction in Plants</li> <li>7. Sexual Reproduction in Humans</li> </ol>	<ol style="list-style-type: none"> <li>1. Aspects of Biochemistry</li> <li>2. Patterns of Inheritance</li> <li>3. Reproduction in Plants</li> </ol>
Building and Mechanical Engineering Drawing	<p>Engineering Drawing</p> <ol style="list-style-type: none"> <li>1. Standard Engineering Curves</li> <li>2. Orthographic Projection</li> <li>3. Surface Development</li> <li>4. Helix</li> <li>5. Working and Assembly Drawings</li> <li>6. Solutions to Engineering Problems</li> </ol> <p>Building Drawing</p> <ol style="list-style-type: none"> <li>1. Standard Engineering Curves</li> <li>2. Orthographic Projection</li> <li>3. Surface Development</li> <li>4. Helix</li> <li>5. Producing and Modifying Building Drawing</li> </ol>	Not applicable
Caribbean Studies	<ol style="list-style-type: none"> <li>1. Impact of Geographical phenomena – coral reefs</li> <li>2. Associations Related to Integration in the Caribbean</li> <li>3. Impact of Societal Institutions on Caribbean People – Religion: <i>African, Asian, European-derived, syncretic</i></li> <li>4. Contributions of Sports to Caribbean Development</li> </ol>	<p>Research Process</p> <ul style="list-style-type: none"> <li>• Research Design</li> <li>• Collecting Information</li> <li>• Presenting and Interpreting Data</li> <li>• Drawing Conclusions</li> </ul> <p>The Use of Technology in Education in a Named Caribbean Country since 1980</p> <p style="text-align: center;">OR</p> <p>Festivals in the Caribbean Country</p>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Chemistry	<ol style="list-style-type: none"> <li>1. Atomic Structure</li> <li>2. Mole Concept</li> <li>3. Redox Reactions</li> <li>4. Rates of Reaction</li> <li>5. Chemical Equilibria</li> <li>6. Buffers and pH</li> <li>7. Group II elements</li> <li>8. First Row Transition Elements</li> </ol>	<ol style="list-style-type: none"> <li>1. The Mole Concept</li> <li>2. Rates of Reaction</li> <li>3. Identification of Cations and Anions</li> </ol>
Communication Studies	<p>Candidates will be asked to write THREE essays in which they will be required to do the following:</p> <ol style="list-style-type: none"> <li>1. Analyse an expository passage written in Standard English <ul style="list-style-type: none"> <li>• Summarize main message and identify author's purpose</li> <li>• Assess the effectiveness of the organizational and rhetorical strategies used to convey the message and achieve the writer's purpose.</li> </ul> </li> <li>2. Analyse a narrative passage which includes Caribbean Creole English <ul style="list-style-type: none"> <li>• Discuss the use of elements of language, such as dialectal variety, language registers, communicative behaviours and attitudes to language.</li> </ul> </li> <li>3. Write a proposal for the delivery of a message to a specific audience and justify the use of the following for the targeted audience. <ul style="list-style-type: none"> <li>• Promotional strategies</li> <li>• Rhetorical appeals</li> <li>• Presentation strategies</li> <li>• Technological devices</li> <li>• The timeline for delivery</li> </ul> </li> </ol>	<p>Candidates will be asked to write THREE essays in which they will be required to do the following:</p> <ol style="list-style-type: none"> <li>1. Analyse an expository passage written in Standard English <ul style="list-style-type: none"> <li>• Summarize main message and identify author's purpose.</li> <li>• Assess the effectiveness of the organizational and rhetorical strategies used to convey the message and achieve the writer's purpose.</li> </ul> </li> <li>2. Analyse a narrative passage which includes Caribbean Creole English <ul style="list-style-type: none"> <li>• Discuss the use of elements of language, such as dialectal variety, language registers, communicative behaviours and attitudes to language.</li> <li>• Envision how the communicative behaviours could be depicted.</li> </ul> </li> <li>3. Analyse a message in which they <ul style="list-style-type: none"> <li>• identify the audience</li> <li>• justify the author's strategies for appealing to this audience</li> <li>• justify context of message dissemination.</li> </ul> </li> </ol>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Computer Science	<ol style="list-style-type: none"> <li>1. Computer Architecture and Organization</li> <li>2. Problem-solving with Computers</li> <li>3. Programming</li> </ol>	Not applicable
Digital Media	<ol style="list-style-type: none"> <li>1. The Open Movement Philosophy</li> <li>2. Characteristics of the Modern Work Environment</li> <li>3. Skills Needed to Enhance Employability and Entrepreneurship</li> <li>4. Digital Media Tools</li> </ol>	<ol style="list-style-type: none"> <li>1. Understanding Digital Media</li> <li>2. The Digital Media Ecosystem</li> <li>3. Creative Solution Design</li> </ol>
Economics	<ol style="list-style-type: none"> <li>1. Central Problem of Economics</li> <li>2. Theory of Consumer Demand</li> <li>3. Market Equilibrium</li> <li>4. Market Structure</li> <li>5. Market Failure</li> <li>6. Intervention</li> <li>7. The Demand for and Supply of Factors</li> <li>8. Wage Differentials</li> <li>9. Income Inequality, Poverty and Poverty Alleviation</li> </ol>	<ol style="list-style-type: none"> <li>1. Theory of Supply</li> <li>2. Market Equilibrium</li> <li>3. Market Structure</li> <li>4. Market Failure</li> <li>5. Wage Differentials</li> <li>6. Income Inequality, Poverty and Poverty Alleviation</li> </ol> <p>Theme: Rotating Savings and Credit Associations in the Caribbean (ROSCAs)</p>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Electrical and Electronic Technology	<ol style="list-style-type: none"> <li>1. Environmental Issues and Concerns</li> <li>2. Health and Safety Standards</li> <li>3. Basic First Aid</li> <li>4. Effects of Electricity on the Body</li> <li>5. Measuring Instruments</li> <li>6. Principles of Applied Physics and Chemistry</li> <li>7. Direct Current (dc) Theory and Network Theorems</li> <li>8.</li> </ol>	Not applicable
Entrepreneurship	<ol style="list-style-type: none"> <li>1. Features of Entrepreneurs and Entrepreneurship</li> <li>2. Small Business Management and Intrapreneurship</li> <li>3. The Entrepreneurial Process</li> <li>4. Business Concepts, Ideas and Opportunities</li> <li>5. Implementing, Managing and Harvesting the Venture</li> <li>6. Creativity and Innovation</li> <li>7. Methods of Protecting Innovations and Creativity</li> </ol>	<ol style="list-style-type: none"> <li>1. Features of Entrepreneurs and Entrepreneurship</li> <li>2. Small Business Management and Intrapreneurship</li> <li>3. The Entrepreneurial Process</li> <li>4. Business Concepts, Ideas and Opportunities</li> <li>5. Implementing, Managing and Harvesting the Venture</li> <li>6. Creativity and Innovation</li> <li>7. Methods of Protecting Innovations and Creativity</li> </ol>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Environmental Science	<ol style="list-style-type: none"> <li>1. Importance of Biogeochemical Cycles</li> <li>2. Energy and Nutrient Flow within Ecosystems</li> <li>3. Factors Affecting Population Growth in a Natural Ecosystem</li> <li>4. Natural Selection and Adaptation to the Environment</li> <li>5. Species Diversity</li> <li>6. Carrying Capacity</li> <li>7. Factors Affecting Population Growth Rate</li> <li>8. Population Growth and Poverty</li> <li>9. People and the Environment</li> <li>10. Demographic Characteristics of Human Population</li> <li>11. Consumptive and Non-consumptive Use of Natural Resources</li> <li>12. Natural Resources in the Caribbean</li> <li>13. Renewable and Non-renewable Natural Resources</li> <li>14. Natural Resource Management and Conservation</li> <li>15. Relationship between Living Organisms and their Environment</li> <li>16. Human Interactions in Natural Ecosystems</li> <li>17. Human Consumption Patterns</li> <li>18. Human Impacts on the Environment</li> <li>19. Environmental Impacts of Natural Resource Use</li> </ol>	<ol style="list-style-type: none"> <li>1. Interactions between Organisms in Communities</li> <li>2. Species Diversity and Ecosystem Stability</li> <li>3. Current Geographical Distribution of Human Population Growth</li> <li>4. Population Control Methods and Measures</li> <li>5. Current Geographical Variation in Human Consumption Patterns</li> <li>6. Environmental Impacts of Urbanization</li> <li>7. Natural Resources in Caribbean Countries</li> <li>8. Measures and Tools Available for Natural Resource Management and Conservation of the Environment</li> <li>9. Population Sampling</li> <li>10. Human Interactions in Natural Ecosystems</li> <li>11. Ways in which People Impact Negatively on the Environment</li> </ol>
Financial Services Studies	<ol style="list-style-type: none"> <li>1. Offshore Banking</li> <li>2. Financial Markets and Financial Mediation</li> <li>3. Common Stock and the Theory of Expectation and Efficient Market Hypothesis</li> <li>4. Markowitz Investment Theory</li> <li>5. Risk–return Efficient Frontier of Risky Assets</li> <li>6. Efficient Market Hypothesis</li> <li>7. Money Laundering</li> <li>8. Cybersecurity</li> </ol>	<p>Three structured questions based on research activities. This paper will test knowledge of Financial Services concepts contained in the syllabus and research skills relevant to Financial Services.</p>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Food and Nutrition	<ol style="list-style-type: none"> <li>1. Nutrient Needs of Individuals at Different Stages of the Life Cycle or Course</li> <li>2. Growth and Development and Adequate Food Intake</li> <li>3. Malnutrition and Infections</li> <li>4. Nutritional Status</li> <li>5. Nutrition-related Diseases</li> <li>6. Control and Management of Other Chronic Diseases</li> <li>7. Functional, Chemically Modified and Genetically Modified Foods</li> <li>8. <i>Role of</i> Labels and Nutrition Information on Food Products</li> <li>9. Planning Diets for Persons at all Stages of the Life Cycle and Alternative Needs</li> <li>10. Planning Meals with Food Appeal and Palatability</li> <li>11. Food Spoilage</li> <li>12. Nutrient Conservation</li> <li>13. Organizing Food Preparation Area</li> <li>14. Kitchen Safety</li> <li>15. Food Safety, Sanitation and Food Poisoning</li> <li>16. Scientific Principles Underlying Food Preparation Methods</li> <li>17. Recipe Modification and Conversion</li> <li>18. Sensory Evaluation of Food Products</li> </ol>	Not applicable
French	<ol style="list-style-type: none"> <li>1. Health and Fitness</li> <li>2. Gender Roles</li> <li>3. Role of the Media</li> <li>4. Religion</li> <li>5. Crime and Violence</li> <li>6. Employment and Unemployment</li> <li>7. Pollution</li> </ol>	All novels and themes are prescribed for the examination by the syllabus. Candidates are required to choose, study and prepare to respond to questions on specific texts and themes for the examination.

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Geography	<ol style="list-style-type: none"> <li>1. Population Distribution</li> <li>2. Population Change</li> <li>3. Population Structure</li> <li>4. Population and Resources</li> <li>5. Settlement Processes</li> <li>6. Hydrology</li> <li>7. Fluvial Processes and Landforms</li> <li>8. Coastal Processes and Landforms</li> <li>9. Processes and Landforms in Limestone Environments</li> <li>10. Natural Events, Hazards and Disasters</li> <li>11. Flooding</li> <li>12. Plate Tectonics</li> <li>13. Response to Hazards</li> </ol>	<ol style="list-style-type: none"> <li>1. Population Change</li> <li>2. Settlement Processes</li> <li>3. Hydrology</li> <li>4. Fluvial Processes and Landforms</li> <li>5. Coastal Processes and Landforms</li> <li>6. Natural Events, Hazards and Disasters</li> <li>7. Plate Tectonics</li> <li>8. Response to Hazards</li> </ol>
Green Engineering I–II	<ol style="list-style-type: none"> <li>1. Current Trends Related to the Utilization of Natural Resources</li> <li>2. Concepts of Sustainable Development, Sustainability and Efficiency</li> <li>3. The Need for Sustainability</li> <li>4. Principles of Green Engineering</li> <li>5. Principles of Industrial Ecology</li> <li>6. Green Engineering in Practice</li> </ol>	A written paper consisting of a report based on a case study
History	<ol style="list-style-type: none"> <li>1. European Contact with West Africa up to 1492</li> <li>2. African Contact with the Americas prior to 1492</li> <li>3. The Haitian Revolution, 1789–1804</li> <li>4. Eric Williams: Decline Thesis</li> <li>5. Caribbean Integration</li> <li>6. Labour Protests in the Second Half of the Nineteenth Century: <ul style="list-style-type: none"> <li>• Vox Populi, 1862</li> <li>• Morant Bay, 1865</li> <li>• Confederation, 1876</li> </ul> </li> </ol>	<p>This paper will consist of questions related to candidates' research and is designed to assess their ability to</p> <ol style="list-style-type: none"> <li>1. evaluate primary and secondary sources</li> <li>2. relate the topic to a theme in the syllabus</li> <li>3. place the topic in the wider historical context</li> <li>4. synthesize the results of the research.</li> </ol>



SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Information Technology	<ol style="list-style-type: none"> <li>1. Information Technology vs other Disciplines in Computing</li> <li>2. Information Processing</li> <li>3. History of Information Technology</li> <li>4. Characteristics of Information Sources</li> <li>5. Tools Used in Information Technology</li> <li>6. Components of an Information Technology System</li> <li>7. Purpose and Functions of Hardware Components</li> <li>8. Types of HCI</li> <li>9. Security of Information Technology Systems</li> <li>10. Structure of the World Wide Web</li> <li>11. Concept of Problem-solving</li> <li>12. Problem-solving Techniques</li> </ol>	<ol style="list-style-type: none"> <li>1. Information Technology problems</li> <li>2. Data Gathering</li> <li>3. Implementing Solutions and Justifications</li> </ol>
Integrated Mathematics	<ol style="list-style-type: none"> <li>1. Numbers</li> <li>2. Coordinate Geometry</li> <li>3. Functions, Graphs, Equations and Inequalities</li> <li>4. Logarithms and Exponents</li> <li>5. Remainder and Factor Theorem</li> <li>6. Sequences and Series</li> <li>7. Matrices and Systems of Equations</li> <li>8. Trigonometry</li> <li>9. Data and Sampling</li> <li>10. Measures of Location and Spread</li> <li>11. Permutations and Combinations</li> <li>12. Probability, Probability Distributions and Regression</li> <li>13. Limits and Continuity</li> <li>14. Differentiation</li> <li>15. Application of Differentiation</li> <li>16. Integration</li> </ol>	<ol style="list-style-type: none"> <li>1. Probability, Probability Distributions and Regression</li> <li>2. Data and Sampling</li> <li>3. Presentation of Data</li> <li>4. Measures of Location and Spread</li> <li>5. Functions, Graphs, Equations and Inequalities</li> <li>6. Trigonometry</li> <li>7. Differentiation</li> <li>8. Application of Differentiation</li> <li>9. Integration</li> </ol>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Law	<ol style="list-style-type: none"> <li>1. Roles and Functions of the Functionaries in the Legal Personnel</li> <li>2. The Doctrine of Separation of Powers <ul style="list-style-type: none"> <li>• The Concept of Rule of Law</li> <li>• Judicial Review</li> </ul> </li> <li>3. Defense in Criminal Law</li> </ol>	Child Sexual Abuse
Literatures in English	<p>This is an extended essay paper in three sections:</p> <ol style="list-style-type: none"> <li>1. Section A (Drama) will comprise TWO questions, ONE on each of the prescribed texts. Candidates must answer ONE question.</li> <li>2. Section B (Poetry) will comprise TWO questions on the three prescribed poets. Candidates must answer ONE question with reference to one of the prescribed poets.</li> <li>3. Section C (Prose Fiction) will comprise TWO questions of which candidates must answer ONE. Candidates must use ONE Caribbean text AND EITHER ONE British, OR ONE American, OR ONE Postcolonial text.</li> </ol>	Paper 032 is an extended essay paper consisting of THREE questions, one on each of the modules. Candidates must write a critical appreciation of an excerpt from a play, a poem and a prose extract.
Logistics and Supply Chain Management	<ol style="list-style-type: none"> <li>1. Concepts and Components of Logistics</li> <li>2. Logistics and Competitive Advantage</li> <li>3. Relationship between Logistics and Supply Chain Operations and their Impacts</li> <li>4. Globalization and Supply Chain Operations</li> <li>5. Components of Customer Service</li> <li>6. Customer Interfaces and Support Systems</li> <li>7. Evaluation of Customer Service in Logistics and Supply Chain Operations</li> </ol>	<ol style="list-style-type: none"> <li>1. Concepts and Components of Logistics</li> <li>2. Logistics and Competitive Advantage</li> <li>3. Relationship between Logistics and Supply Chain Operations and their Impacts</li> <li>4. Globalization and Supply Chain Operations</li> <li>5. Components of Customer Service</li> <li>6. Evaluation of Customer Service in Logistics and Supply Chain Operations</li> </ol>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Management of Business	<ol style="list-style-type: none"> <li>1. Business Ethics and Corporate Social Responsibility</li> <li>2. Impact of Globalization on Business</li> <li>3. The Functions and Theories of Management (the Planning Function of Management)</li> <li>4. Theory and Application of Motivation (Causes and Effects of Motivation)</li> <li>5. Theories of Leadership</li> <li>6. Sources of Finance</li> <li>7. Components of Financial Statements</li> <li>8. Financial Statements Analysis</li> </ol>	<ol style="list-style-type: none"> <li>1. Business Ethics and Corporate Social Responsibility</li> <li>2. Decision-making</li> <li>3. Impact of Globalization on Business</li> <li>4. Theory of Motivation</li> <li>5. Management of Change</li> <li>6. Functions of Human Resource Management</li> <li>7. Sources of Finance</li> <li>8. Money and Capital Markets</li> <li>9. Analysis and Calculation of Investment Appraisal Methods</li> </ol>
Performing Arts	Practical Assignment	Not applicable
Physical Education & Sport	<ol style="list-style-type: none"> <li>1. Role of Body systems in Movement</li> <li>2. Energy Systems and Sport Performance</li> <li>3. Components of Fitness</li> <li>4. Monitoring Fitness</li> <li>5. Theoretical Perspectives</li> <li>6. Sociological Issues in Sport</li> <li>7. Olympism and the Olympics</li> <li>8. Theories of Motivation</li> <li>9. Activation and Performance</li> <li>10. Cognition and Motor Skill Learning</li> <li>11. Importance of Effective Leadership</li> </ol>	Not applicable
Physics	<ol style="list-style-type: none"> <li>1. Motions</li> <li>2. The Effect of Forces</li> <li>3. Harmonic Motion</li> <li>4. Properties of Waves</li> <li>5. Physics of the Ear and Eye</li> <li>6. The Kinetic Theory of Gases</li> <li>7. Heat Transfer</li> </ol>	<ol style="list-style-type: none"> <li>1. Motions</li> <li>2. Properties of Waves</li> <li>3. Design and Use of Thermometers</li> <li>4. Mechanical Properties of Materials</li> </ol>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Pure Mathematics	<ol style="list-style-type: none"> <li>1. Reasoning and Logic</li> <li>2. The Real Number System</li> <li>3. Algebraic Operations</li> <li>4. Exponential and Logarithmic Functions</li> <li>5. Functions</li> <li>6. The Modulus Function</li> <li>7. Cubic Functions and Equations</li> <li>8. Trigonometric Functions, Identities and Equations</li> <li>9. Coordinate Geometry</li> <li>10. Vectors</li> <li>11. Limits</li> <li>12. Differentiation</li> <li>13. Integration</li> </ol>	<ol style="list-style-type: none"> <li>1. The Real Number System</li> <li>2. Exponential and Logarithmic Functions</li> <li>3. Cubic Functions and Equations</li> <li>4. Trigonometric Functions, Identities and Equations</li> <li>5. Coordinate Geometry</li> <li>6. Vectors</li> <li>7. Differentiation</li> <li>8. Integration</li> </ol>
Sociology	<ol style="list-style-type: none"> <li>1. Principles of Scientific Research</li> <li>2. Education</li> <li>3. Concepts of Stratification in a Comparative Perspective</li> <li>4. Theoretical Perspectives</li> <li>5. Evolution of Caribbean Stratification</li> </ol>	<p>Three structured questions based on research activities. This paper will test knowledge of sociological concepts contained in the syllabus and skills of sociological research.</p>

SUBJECT	UNIT I	
	PAPER 02	PAPER 03/032
Spanish	<ol style="list-style-type: none"> <li>1. Health and Fitness</li> <li>2. Forest Fires</li> <li>3. Gender Roles</li> <li>4. Employment and Unemployment</li> <li>5. Role of the Media</li> <li>6. Religion</li> <li>7. Education</li> </ol>	<p>All the novels and themes are selected for the examination, as per the syllabus. However, students will select questions based on the novels and themes studied in their respective schools.</p>
Tourism	<ol style="list-style-type: none"> <li>1. Key Concepts</li> <li>2. Issues Affecting Tourism</li> <li>3. Sectors of Tourism</li> <li>4. Tourism Linkage and Leakage</li> <li>5. Economic Impacts</li> <li>6. Sustainable Tourism</li> <li>7. Community Participation</li> <li>8. Policy, Planning and Management</li> </ol>	<ol style="list-style-type: none"> <li>1. Sustainable Tourism</li> <li>2. Community Participation</li> <li>3. Measuring and Monitoring Sustainable Tourism</li> <li>4. Policy, Planning and Management</li> </ol>

## CARIBBEAN ADVANCED PROFICIENCY EXAMINATION® (CAPE®) UNIT II

### MAIN AREAS OF FOCUS FOR JUNE/JULY 2021 EXAMINATIONS – PAPERS 02 AND 032

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Accounting	<ol style="list-style-type: none"> <li>1. Inventory or Stock Valuation Methods</li> <li>2. Overhead Costs</li> <li>3. Costing Systems</li> <li>4. Job Costing</li> <li>5. Activity-based Costing</li> <li>6. Marginal Costing and Absorption Costing</li> <li>7. Income Statements</li> <li>8. Budgeting</li> <li>9. Master Budget</li> <li>10. Standard Costing</li> <li>11. Capital Budgeting Techniques</li> </ol>	<ol style="list-style-type: none"> <li>1. Cost and Management Accounting vs Financial Accounting</li> <li>2. Manufacturing Accounts</li> <li>3. Remuneration</li> <li>4. Job Costing</li> <li>5. Process Costing</li> <li>6. Managerial and Absorption Costing</li> <li>7. Standard Costing</li> <li>8. Variance Analysis</li> <li>9. Cost Volume Profit Analysis</li> </ol>
Agricultural Science	<ol style="list-style-type: none"> <li>1. Soil and Water Pollution</li> <li>2. Pollution Control (to include International Conventions and Agreements)</li> <li>3. The Role of Society in Shaping the Agricultural Agenda</li> <li>4. Climate Change</li> <li>5. Health Concerns Associated with Farm Animals</li> <li>6. Genetics and Breeding</li> <li>7. Harvesting Agro-energy</li> <li>8. Technology in Animal Reproduction</li> </ol>	Not applicable

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Animation and Game Design	<ol style="list-style-type: none"> <li>1. Principles of Interactive Design</li> <li>2. Elements of Visual Design</li> <li>3. Core Dynamics</li> <li>4. Goals for Games</li> <li>5. Types of Stories</li> <li>6. Game Design Tools</li> <li>7. Camera Views</li> <li>8. 3D Modelling</li> <li>9. Lighting for 3D</li> <li>10. Basic Principles of Animation</li> <li>11. Wire Bending</li> </ol>	Not applicable
Applied Mathematics	<ol style="list-style-type: none"> <li>1. Linear Programming</li> <li>2. Assignment Models</li> <li>3. Graph Theory and Critical Path Analysis</li> <li>4. Logic and Boolean Algebra</li> <li>5. Probability</li> <li>6. Discrete Random Variables</li> <li>7. Continuous Random Variables</li> <li>8. Chi-square Test</li> <li>9. Coplanar Forces and Equilibrium</li> <li>10. Kinematics and Dynamics</li> <li>11. Projectiles</li> <li>12. Work, Energy and Power</li> </ol>	<ol style="list-style-type: none"> <li>1. Logic and Boolean Algebra</li> <li>2. Assignment Models</li> <li>3. Continuous Random Variables</li> <li>4. Chi-square Test</li> <li>5. Coplanar Forces and Equilibrium</li> <li>6. Kinematics and Dynamics</li> <li>7. Work, Energy and Power</li> </ol>
Art and Design	Production Paper	Not applicable

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Biology	<ol style="list-style-type: none"> <li>1. Cellular Respiration and ATP Synthesis</li> <li>2. Energy Flow and Nutrient Cycling</li> <li>3. Transport in the Phloem</li> <li>4. Nervous Coordination</li> <li>5. Immunology</li> <li>6. Substance Abuse</li> </ol>	<ol style="list-style-type: none"> <li>1. Cellular Respiration and ATP Synthesis</li> <li>2. The Kidney, Excretion and Osmoregulation</li> <li>3. Health and Disease</li> <li>4. Substance Abuse</li> </ol>
Building and Mechanical Engineering Drawing	<p>Mechanical Engineering Drawing and Design</p> <ol style="list-style-type: none"> <li>1. Shear Force and Bending Moment Diagrams in Beams</li> <li>2. Involute Spur Gears</li> <li>3. Manufacturing Engineering Components</li> <li>4. Solving Problems with the Application of Bearings and Bushings</li> <li>5. Solving Problems using Elements of Power Transmission</li> <li>6. Preparing Freehand Sketches</li> <li>7. The Design Principles</li> </ol> <p>Building Drawing and Design</p> <ol style="list-style-type: none"> <li>1. Constructing Shear Force and Bending Moment Diagrams in Beams</li> <li>2. Producing and Reproducing Structural Drawings</li> <li>3. Common Properties of Construction Materials</li> <li>4. Analysing the Properties of Construction Materials</li> <li>5. Stages in the Design Process</li> <li>6. Design Features of Buildings</li> <li>7. Construction Management</li> </ol>	Not applicable



SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Chemistry	<ol style="list-style-type: none"> <li>1. Structure and Formulae</li> <li>2. Functional Group Analysis (Alkanes, Alkenes)</li> <li>3. Uncertainty in Measurements</li> <li>4. Titrimetric Methods of Analysis</li> <li>5. Gravimetric Methods of Analysis</li> <li>6. Locating and Operating Industrial Plants</li> <li>7. Ammonia</li> <li>8. Ethanol</li> </ol>	<ol style="list-style-type: none"> <li>1. Functional Group Analysis, Reactions and Mechanisms</li> <li>2. Titrimetric (Volumetric) Methods of Analysis</li> <li>3. Crude Oil</li> </ol>
Computer Science	<ol style="list-style-type: none"> <li>1. Data Structures</li> <li>2. Software Engineering</li> <li>3. Operating Systems and Computer Networks</li> </ol>	Not applicable
Digital Media	<ol style="list-style-type: none"> <li>1. Design Principles</li> <li>2. Prototypes using Design Principles</li> <li>3. Tools and Techniques for Content Development</li> <li>4. Factors that Impact the Mobile User Experience</li> <li>5. Benefits of Local Apps</li> <li>6. Tools and Techniques to Create a Mobile Application</li> </ol>	<ol style="list-style-type: none"> <li>1. Visual and Interactive Design</li> <li>2. Web and Digital Publishing</li> <li>3. Mobile App Development</li> </ol>
Economics	<ol style="list-style-type: none"> <li>1. National Income Accounting</li> <li>2. Basic Keynesian Models</li> <li>3. Monetary Theory and Policy</li> <li>4. Fiscal Policy</li> <li>5. Public Debt</li> <li>6. Growth and Sustainable Development</li> <li>7. International Trade</li> <li>8. Economic Integration</li> <li>9. International Economic Relations (Globalization)</li> </ol>	<ol style="list-style-type: none"> <li>1. National Income Accounting</li> <li>2. Classical Models of the Macroeconomy</li> <li>3. Unemployment and Inflation</li> <li>4. Growth and Sustainable Development</li> <li>5. International Trade</li> </ol> <p>Theme: The Impact of Hurricanes on the Caribbean Economy</p>

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Electrical and Electronic Technology	<p>OPTION A</p> <ol style="list-style-type: none"> <li>1. Elements of a Communication System</li> <li>2. Multimedia and Wireless Communication Systems</li> <li>3. Digital Communication Systems</li> <li>4. Operational Amplifiers</li> <li>5. Problem-solving – Operational Amplifiers</li> <li>6. Transistors</li> <li>7. Combinational Logic and Truth Tables</li> <li>8. Instrument and Electrical System</li> <li>9. Programmable Logic Control (PLC) Systems</li> <li>10. Supervisory Control and Data Acquisition (SCADA) systems</li> </ol> <p>OPTION B</p> <ol style="list-style-type: none"> <li>1. Safety Standards</li> <li>2. Power Machines and Systems</li> <li>3. Wind Energy</li> <li>4. Solar Photovoltaic (PV) Systems</li> <li>5. Geothermal Systems</li> <li>6. Fossil Power Plants</li> <li>7. Steam Turbine</li> <li>8. Diesel Engine</li> </ol>	Not applicable

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Entrepreneurship	<ol style="list-style-type: none"> <li>1. Types of Risk and Benefits of Ventures</li> <li>2. Legal and Regulatory Framework</li> <li>3. Ethics and Corporate Social Responsibility</li> <li>4. Market Research, Feasibility Analysis and Business Plan</li> <li>5. Financial Statements, Savings and Investment</li> <li>6. E-commerce</li> <li>7. Venture Life Cycle</li> <li>8. Venture Valuation</li> </ol>	<ol style="list-style-type: none"> <li>1. Types of Risk and Benefits of Ventures</li> <li>2. Legal and Regulatory Framework</li> <li>3. Ethics and Corporate Social Responsibility</li> <li>4. Market Research, Feasibility Analysis and Business Plan</li> <li>5. Financial Statements, Savings and Investment</li> <li>6. E-commerce</li> <li>7. Venture Life Cycle</li> <li>8. Venture Valuation</li> </ol>
Environmental Science	<ol style="list-style-type: none"> <li>1. Agricultural Systems in the Caribbean</li> <li>2. Impact of Agriculture on the Environment</li> <li>3. Sustainable Practices in Agricultural Systems</li> <li>4. Roles of Agriculture in the Region</li> <li>5. Features of Sustainable Agriculture</li> <li>6. Importance of Energy to Society</li> <li>7. Conventional Generation and Distribution of Electricity</li> <li>8. Methods of Energy Conservation and Improving Efficiency</li> <li>9. Nature, Form and Conversion of Energy</li> <li>10. Characteristics of Various Energy Sources</li> <li>11. Environmental Receptors</li> <li>12. Pathways of Pollution in the ecosystem and the Biosphere</li> <li>13. Sources and Nature of Pollutants</li> <li>14. Sources, Impact and Mitigation of Pollution</li> <li>15. International Conventions and Agreements regarding Pollution Control</li> <li>16. Environmental Impacts of Energy Use</li> <li>17. Electricity Generating Capacity and Demand</li> </ol>	<ol style="list-style-type: none"> <li>1. Agricultural Systems in the Caribbean</li> <li>2. Impact of Agriculture on the Environment</li> <li>3. Nature, Form and Conversion of Energy</li> <li>4. Conventional Generation and Distribution of Electricity</li> <li>5. Sources and Nature of Pollutants</li> <li>6. Sources, Impact and Mitigation of Pollution</li> <li>7. Methods of Energy Conservation and Improving Efficiency</li> <li>8. Sustainable Agriculture</li> <li>9. Pollution Monitoring</li> </ol>

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Financial Services Studies	<ol style="list-style-type: none"> <li>1. Career Possibilities</li> <li>2. Concept of Private Banking and the Types of Products and Services Offered within the Offshore Environment</li> <li>3. Cybersecurity</li> <li>4. Management Information System Technologies</li> <li>5. Foreign Account Tax Compliance</li> <li>6. Concept of a Ponzi Scheme and its Legal Implications</li> <li>7. Elements of Financial Reports</li> <li>8. Importance of Financial Reports</li> <li>9. Importance of Ratio Analysis</li> </ol>	<p>Three structured questions based on research activities.</p> <p>This paper will test knowledge of Financial Services concepts contained in the syllabus and research skills relevant to Financial Services.</p>
Food and Nutrition	<ol style="list-style-type: none"> <li>1. Tools and Equipment</li> <li>2. Nutritional Value of Indigenous Foods and Dishes</li> <li>3. Creating Indigenous Caribbean Foods and Dishes</li> <li>4. Food Systems and Food and Nutrition Security</li> <li>5. Food and Nutrition Security Components in the Caribbean</li> <li>6. Maintenance of Adequate and Safe Foods Before, During and After Natural Disasters</li> <li>7. Food Processing</li> <li>8. Methods of Preservation</li> <li>9. Nutrient Improvement of food</li> <li>10. Food and Nutrition Labelling</li> <li>11. Packaging Foods</li> <li>12. Pricing System</li> <li>13. Principles of Menu Planning</li> <li>14. Multi-mix Principle</li> <li>15. Multi-course Menus for Various Occasions</li> <li>16. Portion Control in Food Service and Presentation</li> <li>17. Modifying and Converting Recipes</li> <li>18. Sensory Evaluation of Food</li> </ol>	Not applicable

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
French	<ol style="list-style-type: none"> <li>1. Social and Political Unrest</li> <li>2. Agriculture</li> <li>3. Impact of Information and Communication Technologies (ICTs)</li> <li>4. Disease Prevention and Cure</li> </ol>	All novels and themes are prescribed for the examination by the syllabus. Students are required to choose, study and prepare to respond to questions on specific texts and themes for the examination.
Geography	<ol style="list-style-type: none"> <li>1. Atmosphere and Weather Systems</li> <li>2. Vegetation Types</li> <li>3. Soil Formation and Soil Conservation</li> <li>4. Agriculture</li> <li>5. Industry</li> <li>6. Tourism</li> <li>7. Global Disparities in Development</li> <li>8. Local Disparities in Development</li> <li>9. Measures to Overcome Disparities</li> </ol>	<ol style="list-style-type: none"> <li>1. Atmosphere and Weather Systems</li> <li>2. Agriculture</li> <li>3. Industry</li> <li>4. Global Disparities in Development</li> <li>5. Regional Disparities in Development</li> </ol>
Green Engineering	<ol style="list-style-type: none"> <li>1. The Sustainable Utilization of Materials and Energy</li> <li>2. Principles Related to Designing Products and Infrastructure</li> <li>3. Efficient Utilization of Energy and Materials</li> <li>4. Design and Construction of a Proposed Solution</li> </ol>	A written paper consisting of a design based on a case study
History	<ol style="list-style-type: none"> <li>1. The French Revolution</li> <li>2. Political Independence of Brazil or Venezuela</li> <li>3. World War 2</li> <li>4. The Bolshevik Revolution of 1917</li> <li>5. Reparatory Justice</li> <li>6. Dismantlement of the Apartheid System in South Africa</li> </ol>	<p>This paper will consist of questions related to candidates' research and is designed to assess their ability to</p> <ol style="list-style-type: none"> <li>1. evaluate primary and secondary sources</li> <li>2. relate the topic to a theme in the syllabus</li> <li>3. place the topic in the wider historical context</li> <li>4. synthesize the results of the research.</li> </ol>

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Information Technology	<ol style="list-style-type: none"> <li>1. Files and Databases</li> <li>2. Normalization</li> <li>3. Software Tools</li> <li>4. Information Sources</li> <li>5. Information Technology Tools</li> <li>6. Webpages</li> <li>7. Information Technology and Society</li> <li>8. Legal and Ethical Considerations</li> <li>9. Computer Crimes</li> <li>10. Cybersecurity</li> <li>11. Policies and Practices</li> </ol>	<ol style="list-style-type: none"> <li>1. Information Technology Problems</li> <li>2. Use of Information Technology Tools to Solve Real-life Problems</li> <li>3. Risk Management</li> </ol>
Law	<ol style="list-style-type: none"> <li>1. Defamation</li> <li>2. Formation and Discharge of Contracts</li> <li>3. Law of Easements</li> </ol>	Fixtures and Chattels
Literatures in English	<p>This is an extended essay paper in three sections:</p> <ol style="list-style-type: none"> <li>1. Section A (Drama) will comprise TWO questions of which candidates must answer ONE. Candidates must use ONE of the prescribed works of Shakespeare AND ONE of the prescribed works of Modern Drama.</li> <li>2. Section B (Poetry) will comprise TWO questions, one on each of the prescribed poets. Candidates must answer ONE question.</li> <li>3. Section C (Prose Fiction) will comprise TWO questions. Candidates must answer ONE question with reference to ONE of the three prescribed texts.</li> </ol>	<p>Paper 032 is an extended essay paper consisting of THREE questions, one on each of the modules. Candidates must write a critical appreciation of an excerpt from a play, a poem and a prose extract.</p>

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Logistics and Supply Chain Management	<ol style="list-style-type: none"> <li>1. An Overview of Commercial Shipping</li> <li>2. Types of Vessels and Shipping Markets</li> <li>3. Issues Related to Shipping</li> <li>4. Port Classification and Functions</li> <li>5. Port and Terminal Development</li> <li>6. Logistics Transforming Economies</li> </ol>	<ol style="list-style-type: none"> <li>1. An Overview of Commercial Shipping</li> <li>2. Types of Vessels and Shipping Markets</li> <li>3. Port Classification and Functions</li> <li>4. Government vs Private Sector Management of Ports</li> <li>5. Impact of Logistics on Social, Economic and Environmental Development</li> </ol>
Management of Business	<ol style="list-style-type: none"> <li>1. Capacity Planning</li> <li>2. Inventory Management</li> <li>3. Techniques for Improving Quality</li> <li>4. Lean Production</li> <li>5. Characteristics of Marketing Concepts</li> <li>6. Stages of Marketing Research</li> <li>7. Principles of Market Segmentation</li> <li>8. The Nature and Characteristics of Entrepreneurship</li> <li>9. Major Challenges and Opportunities faced by Small Businesses</li> <li>10. Importance of the Sections of the Business Plan for a Small Business</li> </ol>	<ol style="list-style-type: none"> <li>1. Forecasting Techniques</li> <li>2. Costing</li> <li>3. Lean Production and Quality Management</li> <li>4. The Concept of Marketing</li> <li>5. Implications of Different Marketing Concepts</li> <li>6. Internet Marketing</li> <li>7. The Nature and Characteristics of Entrepreneurship</li> <li>8. Major Challenges and Opportunities faced by Small Businesses</li> </ol>
Performing Arts	Practical Assignment	Not applicable

SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Physical Education and Sport	<ol style="list-style-type: none"> <li>1. Forces</li> <li>2. Principles of Force and Motion</li> <li>3. Concept of Energy</li> <li>4. Management and Leadership</li> <li>5. Legal Issues</li> <li>6. Facilities Management</li> <li>7. Marketing</li> <li>8. Technology in Sport</li> <li>9. Methods of Dissemination of Sports Information</li> <li>10. Use of Social Media</li> </ol>	Not applicable
Physics	<ol style="list-style-type: none"> <li>1. Electrical Quantities</li> <li>2. Electrical Circuits</li> <li>3. Electric Fields</li> <li>4. Capacitors</li> <li>5. Operational Amplifiers</li> <li>6. Particulate Nature of Electromagnetic Radiation</li> <li>7. Radioactivity</li> </ol>	<ol style="list-style-type: none"> <li>1. Electrical Quantities</li> <li>2. Electrical Circuits</li> <li>3. Radioactivity</li> <li>4. Alternating Currents</li> </ol>
Pure Mathematics	<ol style="list-style-type: none"> <li>1. Complex Numbers</li> <li>2. Differentiation</li> <li>3. Integration</li> <li>4. Sequences</li> <li>5. Series</li> <li>6. The Binomial Theorem</li> <li>7. Roots of Equations</li> <li>8. Counting</li> <li>9. Matrices and Systems of Linear Equations</li> <li>10. Differential Equations and Modelling</li> </ol>	<ol style="list-style-type: none"> <li>1. Complex Numbers</li> <li>2. Differentiation</li> <li>3. Integration</li> <li>4. Series</li> <li>5. The Binomial Theorem</li> <li>6. Roots of Equations</li> <li>7. Counting</li> <li>8. Matrices and Systems of Linear Equations</li> <li>9. Differential Equations and Modelling</li> </ol>



SUBJECT	UNIT II	
	PAPER 02	PAPER 032
Sociology	<ol style="list-style-type: none"> <li>1. Concepts of Development</li> <li>2. Indicators of Development</li> <li>3. The Sociological Perspectives of Development</li> <li>4. Concepts Related to Crime and Deviance</li> <li>5. Perspectives on Crime and Deviance</li> <li>6. Concepts Underlying Major Caribbean Social Issues</li> <li>7. Sociological Perspectives on the Causes and Effects of the Major Caribbean Social Issues</li> <li>8. Causes and Effects of Major Caribbean Social Issues</li> </ol>	<p>Three structured questions based on research activities.</p> <p>This paper will test knowledge of sociological concepts contained in the syllabus and skills of sociological research.</p>
Spanish	<ol style="list-style-type: none"> <li>1. Human Rights</li> <li>2. Tourism</li> <li>3. Genetic Practices</li> <li>4. Disease Prevention and Cure</li> <li>5. Information Communication Technology and Social Life</li> <li>6. Information Communication Technology and Economic Life</li> </ol>	<p>All the novels and themes are selected for the examination, as per the syllabus. However, students will select questions based on the novels and themes studied in their respective schools.</p>
Tourism	<ol style="list-style-type: none"> <li>1. The Nature of Tourism Products and Services</li> <li>2. The 'Ideal' Tourism Professional</li> <li>3. Customer Services and Service Quality</li> <li>4. Niche Markets</li> <li>5. Marketing</li> <li>6. Entrepreneurship</li> </ol>	<ol style="list-style-type: none"> <li>1. Niche Markets</li> <li>2. Marketing</li> <li>3. Entrepreneurship – Business Plan</li> </ol>

