

BROAD



Release 2.0 For 2022 May/June CSEC® and CAPE® Examinations

The information in this release supercedes the previous release. All details from Release 1.0 are included.

The Caribbean Examinations Council® (CXC®), in response to the needs of its stakeholders, has provided the following main areas of study to be used as a guide in preparing for the Paper 02 and Paper 03/032 examinations scheduled for May/June 2022.

However, comprehensive knowledge of the syllabus is critical in preparation for CXC® examinations. As a result, the multiple-choice paper will continue to assess the entire syllabus.

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® (CSEC®)

MAIN AREAS OF FOCUS FOR MAY/JUNE 2022 EXAMINATIONS – PAPERS 02 AND 03/032

SUBJECT	PAPER 02	PAPER 03/032
	 Quadratic Equations (including sums, products, roots, curve sketching) Series Sequences Factor and Remainder Theorems Concepts Related to Circle Equation Vectors Application of Area of a Sector Solve Trigonometric Equations Differentiation of Simple Polynomials and Trigonometric Functions Problems Involving Concept of Stationary Points Integration of Simple Functions Includes Trigonometric Functions Area Under Curve Kinematics Probability Theory Includes Conditional Probability and Independent Events Representing Numerical Data Graphically Interpreting Graphs of Numerical Data 	 Calculus Probability and Statistics: Probability Theory Trigonometry: Graphical Solution of Trigonometric Equations

SUBJECT	PAPER 02	PAPER 03/032
Agricultural Science (Double Award)	 Economic Factors of Production Farm Organization and Planning Introduction to animal sciences Structure, Anatomy and Physiology Animal Nutrition and Management Environmental Factors Affecting Crop Growth Harvesting and Postproduction Management Conventional and Nonconventional Crops and Livestock Farming Systems Importance of Agriculture in National, Regional and International Economies Animal Nutrition and Management: Pest and Disease Management 	 Entrepreneurship in Agriculture Communication in Agribusiness Nursery Management Technologies Technologies for Nonconventional Crop Production Postproduction Handling and Processing of Livestock Management Practices in Rearing Livestock Housing Requirements for Different Classes of Livestock Agro-engineering: Appropriate Care and Maintenance of Simple Tools and Equipment
Agricultural Science (Single Award)	 Economic Factors of Production Farm Organization and Planning Introduction to animal sciences Structure, Anatomy and Physiology Animal Nutrition and Management Environmental Factors Affecting Crop Growth Harvesting and Postproduction Management Conventional and Nonconventional Crops and Livestock Farming Systems Importance of Agriculture in National, Regional and International Economies Animal Nutrition and Management: Pest and Disease Management 	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
Biology	 Growth in Plants versus Growth in Animals Germination Nutrition: Heterotrophic, Autotrophic Photosynthesis Plant Cells versus Animal Cells Structure and Function of Cell Organelles/Components Osmosis Cell specialization Effects of Climate change Conservation of the Environment Blood Components, Sickle Cell Anaemia, Genetic Diagram Menstrual Cycle, Birth Control, STIs 	 Parts and Function of a Flower Fruit and Seed Formation Adaptation of Seeds for Dispersal Population and Community Growth And Survival of Populations Types of Nutrition Balanced Diet

SUBJECT	PAPER 02	PAPER 03/032
Caribbean History	Theme 1 — The Indigenous Peoples and the Europeans 1. Migration and Settlement of Indigenous Peoples in • The Caribbean • South and Central America 2. Spanish Exploitation of Indigenous Labour Theme 2 — Caribbean Economy and Slavery 1. The Change from Tobacco to Sugar in the 17th Century 2. Slave Labour on Sugar Plantations Theme 3 — Resistance and Revolt 1. Methods of Resistance 2. Women in Resistance to Slavery 3. The Haitian Revolution and its Consequences Theme 4 — Metropolitan Movements Towards Emancipation 1. Amelioration 2. The Emancipation Act Theme 5 — Adjustments to Emancipation, 1838–1876 1. Missionary Involvement in The Free Village Movement 2. The Consequences of The Establishment of the Peasantry 3. The Old Representative System and Crown Colony Government Theme 6 — Caribbean Economy, 1875–1985 1. The Crisis in the Sugar Industry by the Late 19th Century 2. The Growth of the Cuban Sugar Industry in the 19th Century	THEME TESTED: The Europeans 1. Spain and the Voyages of Columbus 2. Spanish Conquest of the New World and The Indigenous peoples.

SUBJECT	PAPER 02	PAPER 03/032
	 Theme 7 — The United States in the Caribbean, 1776–1985 The Grenada Invasion in 1983 The Reforms of the Castro Regime in Cuba Theme 8 — Caribbean Political Development up to 1985 Revolutionary Reform Policies after The Cuban Revolution Puerto Rico's Status with USA Theme 9 — Caribbean Society, 1900–1985 The Role of Trade Unions in Improving Social and Economic Conditions 	
Chemistry	 Caribbean Celebrations Energetics Mole Concept Acids, Bases and Salts Reactivity and Extraction of Metals Use of Metals Oxidation – Reduction Reactions Electrochemistry Organic Chemistry – An Introduction Reactions of Carbon Compounds Impact Metals on Living Systems and the Environment Non-metals Qualitative Analysis 	 Mole Concept Acids, Bases and Salts Oxidation -Reduction Reactions Qualitative Analysis
Economics	 The Nature of Economics Demand and Supply Market Structure and Market Failure Economic Management: Policies and Goals Caribbean Economies in a Global Environment 	 The Nature of Economics The Financial Sector Economics Management: Policies and Goals International Trade Caribbean Economies in a Global Environment

SUBJECT	PAPER 02	PAPER 03/032
Electronic Document Preparation and Management	 Creating Letterhead with Logo Typing a Letter on Letterhead Two-Page Letter in Blocked Style Format Manuscripts Signs Formatting Features Creating Brochure from Given Information Inserting Bullets Creating Circular Process Chart Inserting Footer Creating a Memorandum Excel Operations Using Formulae to Calculate Totals, Minimum, Maximum and Average Inserting Chart to Show Comparison Designing Certificate with Borders 	 Creating Letterhead with Logo Typing a Letter on Letterhead Blocked Style Format from Skeletal Notes Inserting Appropriate Subject Line Inserting Typist Initials Creating Attendance Register Using Appropriate Software Formatting Features Using Colour Codes to Represent Specific Information Inserting Suitable Shading Creating a Memorandum Creating Flyer from Skeletal Notes Create Programme from Given Information Page Orientation
English A	 Section A: One Compulsory Question – Informative Discourse (Summary) Section B: One Compulsory Question – Informative Discourse (Exposition) Section C: Two Optional Questions (Producing A Short Story) Section D: One Compulsory Argumentative Essay 	 A guided critique of three pieces of stimulus material: An Excerpt on a Topical Issue (from a recent newspaper article) A Cartoon Strip or Lyrics to a Song (on the same topical issue) A Poem, Short Story, Extract of a Public Speech (on the same issue)

SUBJECT	PAPER 02	PAPER 03/032
English B	 Section A — Drama (Shakespeare and Modern Drama) This section consists of TWO Type A questions, ONE on each text. 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. 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. 	 This paper will consist of a guided critique of three pieces of stimulus material: An excerpt from a recent newspaper article on a topical issue A cartoon strip or lyrics to a song on the same topical issue A poem, short story, public speech (extract) on the same issue
Family and Resource Management	 Roles and Functions of the Family The Family Life Cycle The Family and the Community Decision-making Values Resolving Conflict Managing Family Resources Money, Money Management and Budgeting Consumerism Workplace Health Leisure Choosing and Arranging furniture Soft Furnishings and Decorations for the Home 	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
Food, Nutrition and Health	 Lifestyle Diseases Dietary Choices in The Caribbean Factors affecting dietary needs Food security of the elderly Deficiency Diseases Meal Planning Nutrition in the Elderly Packed Meals Food Spoilage Food Preservation Effect of Heat on Food Faults in Cake Making Small Equipment and Electrical Devices Fuel Conservation Consumerism Food Hygiene 	Not applicable

SUBJECT	PAPEI	R 02	PAPER 03/032
French	Written Paper — Four sections Section I: Written Responses Candidates respond in the targe situations that are described in functions, ten will appear in the Advising Accepting and declining Apologizing Asking permission Asking questions Borrowing Congratulating Consoling Describing Explaining Expressing disappointment Expressing doubt Expressing fear/wishes Section II: Informal Letter Writtarget language) under the top Your Experience of a Recent Acceptage	get language to a series of n English. Of the following ne situational responses: Expressing good Expressing gratitude Expressing surprise Giving reasons Identifying Instructing Introducing Inviting Promising Recommending Reminding Requesting Threatening Warning ting (130–150 words in the pic: Sharing with a Relative	PAPER 03/032 Not applicable
	Section III: Contextual Dialogu and Completing Information U Topic: A Selection Interview		
	Section IV: Answering Question reading comprehension passage Topic: A Shopping Experience	ge in the target language)	

SUBJECT	PAPER 02	PAPER 03/032
Geography	 Map Skills Including Settlement, Drainage and Land Use Patterns Coastal Environments Costal Landforms – Erosional and Depositional Features Wave Processes – Erosion and Deposition Weathering and Erosion – Physical and Chemical Weathering Types of Economic Activities in The Caribbean Manufacturing Sector in The Caribbean Advantages/Disadvantages/Challenges faced by Different Industries Coral Reefs Mangroves Tourism – Cruise Ship Industry Sustainable Management of Resources – Fisheries 	 Design and Execution of a Field Study – Based on Natural Systems Coastal Landforms – Erosional and Depositional Features Waves – Types and Characteristics Wave Processes – Erosion and Deposition
Human and Social Biology	 Types of cells: structure and function Sexually Transmitted Diseases Photosynthesis and the Carbon Cycle The Reproductive System Disease and their Impact on Humans Pollution and its Effects on the Environment and the Community The Nervous System 	Nutrition Graph Skills

SUBJECT	PAPER 02	PAPER 03/032
Industrial Technology OPTION A – ELECTRICAL	 Electrical Principles and Measurements Basic Laws of Magnetism and Electromagnetism AC and DC Circuits Measuring Instruments The Principle of Ohm's Law Basic Circuit Configurations Circuit Devices Electrical and Electronic Drafting Electrical and Electronic Drawing Electrical Power and Machines AC and DC Machines Principles and Calculations AC Circuits Parameters DC and Single- and Three-Phase AC Motors Fundamentals of Electronics Features and Functions of Basic Electronic Components Semiconductor Devices and Materials Logic Gates 	Not applicable
Industrial Technology OPTION B – MECHANICAL	 Methods Employed in the Production of Basic Engineering Materials and their Uses Forces Applied to Solid Materials Heat Treatment Methods Benchwork Operations Processes Used to Shape Metals Functions of Special Parts, Accessories and Processes 	Not applicable
Industrial Technology OPTION C – BUILDING	 Natural and Built Environment Site Work Operations Architectural Drawings Building Technology Furniture Technology 	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
Information Technology	 Computer Fundamentals Networking Implications of Misuse and Cybersecurity Word Processing Spreadsheets Database Problem Solving and Programming Algorithms/Flowcharts and Pseudocodes Trace Tables Variables and Constants Conditional Statements and Relational Operators (Loops) 	 Word Processing Web Page Design Spreadsheets Database Management Problem Solving and Programming Algorithms/Flowcharts and Pseudocodes Trace Tables Variables and Constants Conditional Statements and Relational Operators (Loops) IPO Chart
Integrated Science 1. Health and Sanitation 2. Electricity and Lighting 3. Conservation of Energy 4. Metals and Non-metals 5. Terrestrial Environment 6. Water and the Aquatic Environment 7. Fossil Fuels and Alternative Sources of Energy		Food and Nutrition Terrestrial Environment

SUBJECT	PAPER 02	PAPER 03/032
Mathematics	 Number Theory, Consumer Arithmetic and Computation Fractions, Decimals, Percentages, Ratios, Consumer Arithmetic Algebra Indices, Linear and Quadratic Expressions and Equations, Formulas, Direct and Inverse Variation Geometry and Trigonometry Transformation Geometry, Solving Triangles, Circle Geometry/Circle Theorems Relations, Functions and Graphs Functions, Composite Functions, Linear Programming, Graphs of Functions Statistics Measures of Central Tendency – Grouped and Ungrouped Data, Probability, Cumulative Frequency Measurement Problems involving Perimeter, Area, Volume, Surface Area of 2D and 3D Shapes Investigation — Number Theory Identifying and Manipulating Patterns and Sequences Vectors and Matrices Operations and Transformation with Matrices, Vector Geometry: Triangle Law, Parallelogram Law 	 Measurement, Geometry and Trigonometry Algebra Polygons, Problems involving Measurement with Polygons and 3D Shapes Application of Algebra to Problems in Everyday Life
Music	Practical Assignment	Not applicable

SUBJECT	PAPER 02		PAPER 03/032
Office Administration	Essay Paper with Two Sections Section I: Three Compulsory Questions (Drawn from Sections I–VII of the syllabus) Section I: Office Orientation Office Layout and Structure Deployment of Employees Section II: Communication Channels of Communication Written Communication Resume, Job Description Section IV: Records and Information Management Classification Section V: Reception and Hospitality Attributes of a Receptionist Section VII: Travel Arrangements Section II: Three Compulsory Questions (Drawn from Sections VIII–XII of the syllabus) Section VIII: Human Resources Management Functions of the Human Resources Office Employee Turnover Section IX: Accounts and Financial Services Statement of Account Section X: Procurement and Inventory Management Terms Related to Purchasing Section XI: Sales, Marketing and Customer Service Discounts, Invoices Duties of the Customer Service Clerk Section XII: Operations, Dispatch and Transport Services Functions of the Operations Office Operations, Dispatch and Transport Office Duties of the Personnel Documents Used	1. 2. 3.	 Maintaining Accurate Records Filing Systems Characteristics of Records Management Systems Section VII: Travel Arrangements Information and Services required for Travel Travel Documents Schedules Monetary Instruments

SUBJECT	PAPER 02	PAPER 03/032
Physical Education and Sport	 History of Physical Education and Sport Relationship between PE and Sport Relationship Among Local, Regional, and International Sporting Organizations Anatomy and Physiology Respiratory System Nervous System Digestive System Excretory System Fitness and Performance Benefits of Exercise and Recreation Classify Movement according to Muscle Action Health and Nutrition Define Health-related Terms Identify Eating disorders Trends and Social Issues Drugs in Sport Special Population Use of Technology in Sports Sports and the Environment 	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
Physics	 Graph Work and Analysis of Data Radioactive Decay Half-life Nuclear Energy Vectors Forces Newton's Law Temperature Gas Law Hydrostatics Wave Motion Sound Lenses Current Electricity Electrical Quantities Circuit Diagrams 	 Graph Work and Analysis of Data Measurement Turning Forces Transformers

SUBJECT	PAPER	02	PAPER 03/032
SUBJECT Portuguese	Written Paper — Four sections of Section I: Written Responses Candidates respond in the target situations that are described in functions, ten will appear in the Advising Accepting and declining Apologizing Asking permission Asking questions Borrowing Congratulating Consoling Describing Explaining Expressing disappointment Expressing doubt Expressing fear/wishes Expressing feelings Section II: Informal Letter Writing target language) under the topic	(one question per section) et language to a series of English. Of the following e situational responses: Expressing good Expressing gratitude Expressing surprise Giving reasons Identifying Instructing Introducing Inviting Promising Recommending Reminding Requesting Threatening Warning Ing (130–150 words in the	PAPER 03/032 Not applicable
	Section III: Contextual Dialogue and Completing Information Usi Topic: A Conversation about an Consequences	ing Cues in English	
	Section IV: Answering Question reading comprehension passage Topic: A Clever Trick	= -	

SUBJECT	PAPER 02	PAPER 03/032
Principles of Accounts	 Books of Original Entry Ledgers Bank Reconciliation Accounting for Limited Liability Companies, Co-operatives and Non-Profit Organizations Manufacturing and Costing Principles Business Plan 	 Books of Original Entry Ledgers Ratio Analysis Control Systems Budget Preparation
Principles of Business	A structured essay paper consisting of five compulsory questions, drawn from the following areas of the syllabus: Section 3 — Establishing a Business Section 4 — Legal Aspects of Business Section 5 — Production Section 7 — Logistics and Supply Chain Section 10 — Technology and the Global Business Environment	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. Section A: Operational Plan Section B: Marketing Plan Section C: Financial Plan For further guidance, candidates should consult subject reports and past papers on the website.

SUBJECT	PAPER 02	PAPER 03/032
	Option C (Islam) 1. Issues related to the Value and Dignity of Human Life 2. Concept of Ibadah (Worship) and Its Impact on Daily Life • Social Interaction	
	 Salah and Daily Life Moral Behaviour and Decency Main Tenets of The Qur'an Allah's Attributes Man's Origin and Purpose The Hadith – 2nd Source of Guidance The Last Day / Day of Judgement Belief in the Hereafter Concept of Prophethood The Consequences of Sin The Concept of Taqwa (God-consciousness) 	
	 Attaining Closeness to Allah Option D (Judaism) Teachings on The Meaning and Purpose of Human Life Individuals' Roles and Responsibilities in Family Life The Books of Teaching Instructions on Jewish Teachings and Practice Death and Afterlife God and Covenant Attributes of God Jewish Festivals in the Caribbean Significance of Sabbath, Rosh Hashanah, Chanukah 	

SUBJECT	PAPER 02	PAPER 03/032
Social Studies	Section A – Answer ALL questions. 1. Roles of The Family 2. Social Issues that Influence Caribbean Family Life 3. Cultural Diversity 4. Cohesion in Groups and Institutions 5. Functions of Institutions 6. Factors that Influence Voter Participation 7. Location and Uses of Natural Resources 8. Sustainable Development and Use of Natural Resources 9. Stages in the Integration Movement 10. Objectives of OECS/CARICOM/CSME 11. Benefits of Regional Integration Section B – Answer ONE question 1. Forms of Communication 2. The Global Media, Cultural Penetration and Development 3. Communications Technology and Regional Integration 4. Factors which Influence Consumer Demand 5. Ways Consumers Practise Thrift 6. Effects of Globalization and Trade Liberalization 7. Land-based and Cruise Tourism 8. Tourism Industry and The Physical Environment 9. Government Policies that Influence the Development of Tourism	 Problem Statements Identification of Key Terms Research Questions Types of Surveys Benefits and Limitations of Data Gathering Instruments Sources of Information Sampling Methods Presentation of Data Recommendations from Research

SUBJECT	PAPER	R 02	PAPER 03/032
Spanish	Written Paper — Four sections Section I: Written Responses Candidates respond in the targ situations described in English. ten will appear in the situation Advising Accepting and declining Apologizing Asking permission Asking questions Borrowing Congratulating Consoling Describing Explaining Expressing disappointment Expressing doubt Expressing fear/wishes Expressing feelings Section II: Informal Letter Writ	s (one question per section) get language to a series of Of the following functions, al responses: Expressing good Expressing gratitude Expressing surprise Giving reasons Identifying Instructing Introducing Inviting Promising Recommending Reminding Requesting Threatening Warning	Not applicable
	target language) under the top a Friend about a Past Experience	ce and a Forgotten Item	
	Section III: Contextual Dialogue and Completing Information U Topic: A Conversation Betweer Person About his/her Career	sing Cues in English	
	Section IV: Answering Question reading comprehension passage Topic: Learning to Defend Your	ge in the target language)	

SUBJECT	PAPER 02	PAPER 03/032
Technical Drawing	Building Drawing 1. Floor Plans and Required Conventions 2. Sectional Drawings and Details 3. Building Conventions/Components 4. Scaling Drawings 5. Preparing Working Drawings Showing Dimensions and Annotations Mechanical Engineering Drawing 1. Orthographic Projection 2. Assembly Drawing 3. Sectional Views and Required Conventions 4. Screw Fasteners 5. Scaling Drawings 6. Preparing Working Drawings Showing Dimensions and Annotations	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
Textiles, Clothing and Fashion	1. Importance of Textiles 2. Textile Terminologies 3. Yarn Construction 4. Technological Developments in Fibres and Fabric Construction 5. Terms Relating to Colour 6. The Colour Wheel 7. Classification of Dyes 8. Methods of Colour Application 9. Fabric Finish 10. Laundry Equipment 11. Soap and Detergent 12. Management Principles 13. Conflict Resolution 14. Careers in the Clothing and Fashion Industries 15. Consumerism 16. Principles of Design 17. Soft Furnishing 18. Fashion Elements 19. Equipment, Tools and Supplies Used in Fashion Sketching, Drawing and Pattern Development 20. Measurements for Fashion Sketching and Drawing 21. Analysing Fashion Figures 22. Health and Safety Standards in the Sewing Lab	Not applicable

SUBJECT	PAPER 02	PAPER 03/032
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 EAMINATION® (CAPE®) UNIT 1 MAIN AREAS OF FOCUS FOR MAY/JUNE 2022 EXAMINATIONS – PAPERS 02 AND 03/032

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Accounting	 The Nature and Scope of Financial Accounting Accounting Methods Conceptual Framework of Accounting Recording Financial Information Accounting and Administrative Control Systems Forms of Business Organization Preparation of Financial Statements from Incomplete Records Income and Expenditure Accounts Statement of Financial Position Preparation Preparation of Financial Statements in a Form Suitable for Publication Significance and Limitations of Financial Statements Analysis of Financial Performance of an Entity 	 Nature and Scope of Financial Accounting Accounting and Administrative Control Systems Forms of Business Organizations Statement of Financial Preparations Preparation of Statement of Cash Flow Ratio Analysis Liquidation and Receivership

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Agricultural Science	 Carbon Cycle and Agricultural Production Agricultural Trade Propagating Orchard Crops Production of Traditional Crops Importance of Nonconventional Crop Farming Systems Postharvest Technology Processing Procedure Processing a Crop Commodity Developing a Business Plan 	Not applicable
Animation and Game Design	 Project Funding Ethical Issues Associated Risks for the Industry Sound Editing Techniques Environmental Design Synopsis Development Storyboard Creation 	Not applicable

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Applied Mathematics	 Sources of Data Data Analysis Probability Theory Random Variables Binomial Distribution Normal Distribution Sampling Distribution and Estimation Hypothesis Testing Chi-square Test Correlation and Linear Regression – Bivariate Data 	 Data Analysis Probability Theory Normal Distribution Hypothesis Testing Chi-Squared Distribution
Art and Design	Production Papers Paper 02 — Two-dimensional art design Paper 03 — Three-dimensional art design	Not applicable
Biology	 Enzymes Cell Structure and Functions Natural Selection Cell Division and Variation Reproduction in Plants Sexual Reproduction in Humans 	 Aspects of Biochemistry Cell Division and Variation Aspects of Genetic Engineering Reproduction in Plants

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Building and Mechanical Engineering Drawing	Building Drawing 1. Archimedean Spiral 2. Orthographic Projection 3. Screw Threads 4. Truncated Designs 5. Sectional Details 6. Designing Disability Access in Buildings Engineering Drawing 1. Archimedean Spiral 2. Orthographic Projection 3. Screw Threads 4. Truncated Designs 5. Assembly Drawing 6. Project Design	Not applicable
Caribbean Studies	 Historical Processes Movements towards Independence Impact of Societal Institutions on Caribbean People Intellectual traditions: Economics and Political Thought Caribbean–Global Interactions Caribbean Influences on Extra-regional Countries Roles and functions of the Mass 	 Research Gender Issues in a Named Caribbean Country Agriculture in a Named Caribbean Country
Chemistry	 Atomic Structure Forces of Attraction Energetics Redox Equilibrium Acid/Base Equilibrium Rates of Reaction Group VII Transition Metals Identification of Cations/Anions 	 The Mole Concept Rates of Reaction Buffers and pH

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Communication Studies	 Analysis of an Expository Passage Written in Standard English Summarize main message and identify author's purpose Assess the effectiveness of the organizational strategies and language techniques used to convey the message and achieve the writer's purpose Analysis of a Narrative Passage which includes Caribbean Creole English Discuss the Use of Elements of Language such as the following:	 Analysis of an Expository Passage written in Standard English Summarize main message and identify author's purpose Assess the effectiveness of the organizational strategies and language techniques used to convey the message and achieve the writer's purpose Analysis of a Narrative Passage which includes Caribbean Creole English Discuss the Use of Elements of Language such as the following:

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Computer Science	 Computer Architecture and Organization Problem-solving with Computers Programming 	Computer Architecture Problem-solving with Computers Programming
Design and Technology	 Elements And Principles of Design Stages In the Design Process Value Of Design – Social and Environmental Design Processes Prototypes Evaluating Designs Design Approaches Used in Industries Benefits of Testing Prototypes 3-D Prototyping Types of Material Two-Dimensional Sketching Testing The Prototype 	
Digital Media	 Terms relating to Digital Media (such as hypertext) Job Opportunities in Digital Media Differentiation Among Digital Media Platform - Digital Terrestrial Broadcasting Remote Work Terminologies Micro Work Phenomena Dm Value Chain Storyboard eBook Creation Website 	Review CXC SBA guide and IA sample for Unit 1 1. Drafting Digital Media Concept 2. Creation of Rough Drafts for the Digital Media Product 3. Creation of Audio-visual File 4. Creation of Digital Promotional Materials 5. Rationale for Product or Service 6. Description of Target Audience 7. Development of a Comprehensive Budget 8. Identification and Description of Technology Tools for the Development of Digital Media Product 9. Methods for Developing the Digital Media Product 10. Preparing Production Schedule, Brainstorming Chart, Storyboard, Rough Design, Wireframe, Mock-up

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Economics Floatrical and Floatrania	 Central Problem of Economics Theory of Consumer Demand Market Equilibrium Market Failure Intervention (re Market Failure) The Demand for and Supply of Factors Wage Differentials Income Inequality, Poverty and Poverty Alleviation 	 Theory of Consumer Demand Market Equilibrium Market Structure Market Failure Intervention (re Market Failure) The Demand for and Supply of Factors Wage Differentials Income Inequality, Poverty and Poverty Alleviation Theme: Peer-to-Peer (P2P) Accommodation Economy
Electrical and Electronic Engineering Technology	Occupational Safety, Health and Environmental Practices 1. Personal Protective Equipment (PPE) 2. Electrical Burns 3. Cardiopulmonary Resuscitation (CPR) Electrical and Electronic Related Studies 1. Magnetic Field Related Calculations 2. Moving Coil Galvanometer Introduction to Circuit Technology and Devices 1. Thevenin's Theorem for DC circuits 2. AC Circuit Calculations	Not applicable

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Entrepreneurship	 Small Business Management Nature, Growth and Cultural Diversity of Entrepreneurship Successes, Failures, Myths and Mistakes of Entrepreneurship Business Concepts, Ideas and Sources of Opportunities Idea Generation Methods and the Entrepreneurial Process Venture Implementation, Management, Harvesting and Required Resources Principles of Creativity and Innovation Disruptive, Incremental and Open Innovations Nurturing, Managing and Protecting Innovation and Creativity 	 Small Business Management Nature, Growth and Cultural Diversity of Entrepreneurship Successes, Failures, Myths and Mistakes of Entrepreneurship Business Concepts, Ideas and Sources of Opportunities Idea Generation Methods and the Entrepreneurial Process Venture Implementation, Management, Harvesting and Required Resources Principles of Creativity and Innovation Disruptive, Incremental and Open Innovations Nurturing, Managing and Protecting Innovation and Creativity

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Environmental Science	 Differentiation Between Key Ecological Terms and Concepts Importance of Biogeochemical Cycles (Nitrogen) Significance of Biogeochemical Cycles to Organisms. Types of Interactions Between Organisms in Communities The Process of Natural Selection and Adaptation to the Environment Determination of Population Size Using Appropriate Sampling Methods Calculating Species Diversity Identification of Factors Affecting Population Growth in a Natural Ecosystem Explanation of the Concept of Carrying Capacity Presentation and Interpretation of Data Using Appropriate Charts, Table, Graphs Explanation of the Demographic Characteristics of Human Population Historical Trends in Human Population Size Interpreting Demographic Tables, Graphs and Charts Calculating Changes in Demographic Characteristics Assessing Factors Affecting Population Growth Rate Assessing the Relationship Between Population Growth and Poverty Explanation of the Principal Ways People Impact Negatively on the Environment Explanation of the Term Natural Resources Differentiation between renewable and non-renewable natural resources exhaustible and inexhaustible resources Differentiation Between the Consumptive and Nonconsumptive Use of Natural Resources 	 Explanation of How Ecosystems are Self-sustaining Process Of Natural Selection and Adaptation to the Environment Identify Factors Affecting Population Growth in a Natural Ecosystem Explanation of the Concept of Carrying Capacity Presentation and Interpretation of Data Using Appropriate Charts, Table, Graphs Assessing The Relationship Between People and the Environment Explanation of the Demographic Characteristics Of Human Population Historical Trends In Human Population Size Interpretation of Demographic Tables, Graphs and Charts Calculating Changes In Demographic Characteristics Assess the Relationship Between Population Growth and Poverty Explanation of the Relationship Between Population Growth and Sustainable Development Explanation of the Term Natural Resources Differentiation between renewable and non-renewable natural resources exhaustible and inexhaustible resources Differentiation Between Consumptive and Nonconsumptive Use of Natural Resources Assessment of the Importance of Natural Resource in the Caribbean Justification of the Need for Natural Resource Conservation Measures and Tools Available for natural Resource Management and Conservation (International Environmental and Conservation Agreements)

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
	 Identification of the Major Categories of Natural Resources in Caribbean Countries Identification of the Location and Distribution of Natural Resources in The Caribbean Evaluation of Factors Affecting Natural Resource Use in The Caribbean. Assessment of the Environmental Impact of Natural Resource Use (including tourism) Measures and Tools Available for Natural Resource Management and Conservation Ways Indigenous People Have Used and Managed Their Natural Resources 	19. Describe Ways Indigenous People Have Used and Managed their Natural Resources
Financial Services Studies	 Onshore and Offshore Banking Offshore Financial Centres Financial Regulation Fixed Income Securities Bond Pricing (including calculations) Demand and Supply for Bonds Portfolio Analysis (including calculations) Markowitz Investment Theory Money Laundering Cybercrime and Cybersecurity 	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.

SUBJECT	UNIT 1	1
	PAPER 02	PAPER 03/032
Food and Nutrition	 Life Cycle Nutrition Growth and Development Synergistic Relationships Between Malnutrition and Infections Assessing Nutritional Status Management And Prevention of Chronic Diseases Genetically Modified Foods Food Labels Planning Meals Food Spoilage Nutrient Conservation Organization of Food Preparation Areas Food Safety Adaptation of Basic Recipes Sensory Evaluation and Product Development 	Not applicable
French	 Gender Roles Role of the Media Religion Education Crime and Violence Impact of Unemployment on the Individual and Family 	Not applicable

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Geography	 Map Reading Skills Settlement Patterns Drainage Patterns Stream orders Bifurcation Ratio Coastal Hazards Population Distribution Population and Resources Urban Models Water Table Hydrograph Limestone Hazards and Disasters Flooding and Earthquakes 	 Population Pyramids Dependency Population and Research Coastal Change Stream Measurements Limestone Volcanoes Plate tectonics Hazards
Green Engineering	 Renewable and Non-renewable Natural Resources Risks in the Engineering Environment/Consequences and Engineering Challenges Principles of Green Engineering Principles of Industrial Ecology Sustainability Issues in Case Studies Guidelines, Standards and Principles followed in Case Studies 	Not applicable

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
History	 Consequences of Spanish Settlements in The Americas Comparative Analysis of Caribbean and South American Indigenous People Survival strategies by Enslaved People in the Caribbean Dismantlement of the Caribbean Slave Systems Haiti 1804–1825 Strategies by British Caribbean Men and Women to Establish Independence Movements 	Not applicable
Information Technology	 Data, Information and Knowledge Types of Information Sources Characteristics of Information Sources Representing Data and Information Tools Used in Information Technology Types of HCI Adaptation of a User Interface to Increase Effectiveness Security Mechanism Security of Information Systems Simple Networks Simple Webpages Using HTML Tools used in Different Stages of SDLC Data Flow Diagrams (DFD) Algorithm Design and Representation 	 Information Technology problems Data Gathering Implementing Solutions and Justifications

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Integrated Mathematics	 Numbers Functions, graphs, Equations and Inequalities Logarithms and Exponents Remainder and Factor Theorem Sequences and Series Matrices and Systems of Equations Trigonometry Data and Sampling Presentation of Data Measures of Location and Spread Permutations and Combinations Probability, Probability Distributions and Regression Limits and Continuity Differentiation Application of Differentiation Integration 	 Functions, Graphs, Equations and Inequalities Logarithms and Exponents Application of Differentiation Differentiation Measures of Location and Spread Presentation of Data Probability, Probability Distributions and Regression
Law	 Caribbean Legal Systems: Classification Law Public law: Fundamental Rights and Freedoms within Caribbean Constitutions Criminal Law: Elements and Types of Criminal Liability 	Sexual offences

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Literatures in English	 Extended Essay Paper — Three Sections Section A (Drama) will comprise TWO questions, ONE on each of the prescribed texts. Candidates must answer ONE question. 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. 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. 	Extended essay paper — THREE questions (one on each module) Candidates must write a critical appreciation of an excerpt from a play, a poem and a prose extract.
Logistics and Supply Chain Management	 Concepts and Components of Logistics Logistics and Competitive Advantage Intermodal and Multimodal Transportation Globalization and Logistics Supply Chain Operations Components of Customer Service Evaluation of Customer Service in Logistics and Supply Chain Operations 	 Concepts and Components of Logistics Globalization and Logistics and Supply Chain Operations Concept of Customer Service Customer Interfaces and Support Systems

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Management of Business	 Economic Sectors and Legal Structures Business Objectives Decision-making in Business Organizations Group and Team Management Strategies to Manage Conflict Sources of Financing Need for Accounting Information Components of Financial Statements 	 Types of Economics Activity Economic Sectors Legal Structure Formal Organizational Structures Function of Management Communication in Organization Accounting Ratios Budgets Investment Appraisal
Performing Arts	Practical Assignment	Not applicable
Physical Education and Sport	 Role of Endocrine System in Performance Methods of Measuring Fitness Designing Programmes to Improve Performance Theoretical Perspectives Social Significance of Sport Theories of Motivation Relationship between Arousal and Performance Leadership 	Not applicable
Physics	 The Effect of Forces Properties of Waves Mechanical Properties of Materials 	 SI units Motions Conservation of Energy Thermal Properties of Matter Physics of the Ear and Eye

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Pure Mathematics	 Truth value of compound statements Polynomial expressions Using logarithms to solve equations Solution of equations and inequalities Remainder theorem Factor theorem Exponential functions and their inverses Functions and their inverses Identities of trigonometric functions Expressing a cosθ + b sin θ in the form r sin (θ+α) General solution of equations Solution of equations Equations of tangents and the normals to circles Angle between two given vectors Equation of the plane Use of limit notation Limit theorems Problems involving rates of change Second derivatives Nature of stationary points The indefinite integral and the use of integration notation Integration using substitution Area between two curves Volumes of revolution Solution of differential equations 	 Simple and compound propositions Proofs using mathematical induction Exponential functions Laws of logarithms Solution of equations General solution of equations Magnitude and direction of vectors Angle between vectors Addition and subtraction of vectors Equation of a line Equation of a plane Differentiation from first principles Use of the chain rule in differentiation Functions given by parametric equations

SUBJECT	U	UNIT 1	
	PAPER 02	PAPER 03/032	
Sociology	 Types of Sociological Research Quantitative Qualitative Mixed Methods Procedures for Data Collection Application of Various Methods Advantages and Disadvantages of Various Methods Factors Influencing Choice of Research Method Ethical Issues in Research Institutions - Based on ONE of the following: Family, Religion or Education Sociological Perspectives on Institutions Recent Trends in Institutions in the Caribbean Social Mobility in the Caribbean Social Mobility and Class Structure in the Caribbean 	Not applicable	
Spanish	 Young People and Their Values Deforestation Gender Roles Employment and Unemployment Crime and Violence Religion in Society Education 	All the novels and themes are selected for the examination, as per the syllabus. However, candidates will select questions based on the novels and themes studied in their respective institutions.	

SUBJECT	UNIT 1	
	PAPER 02	PAPER 03/032
Tourism	 Classifications of Tourism and Tourists The Tourism System Inter-sectoral Linkages Overview of Tourism Impacts The Eight Sectors of Tourism Benefits of Community Participation Sustainable Tourism Barriers to Implementation 	 Sustainable Tourism Community Participation Impacts (Environmental) The Tourism System Sustainable Development

CARIBBEAN ADVANCED PROFICIENCY EAMINATION® (CAPE®) UNIT 2 MAIN AREAS OF FOCUS FOR MAY/JUNE 2022 EXAMINATIONS – PAPERS 02 AND 03/032

CUBICCT	UNIT 2	
SUBJECT	PAPER 02	PAPER 032
Accounting Agricultural Science	 Nature and Scope of Cost Accounting and Management Accounting Cost Classification Cost Curves Overhead Costs Job Costing Activity-based Costing Marginal Costing and Absorption Costing Cost Volume Profit Analysis Budgeting 	 Manufacturing Accounts Material Control Cost Classification Costing Systems Process Costing Marginal Costing and Absorption Costing Standard Costing Variance Analysis Cost Volume Profit Analysis Capital Budgeting
	 Wildlife Conservation Deforestation and Wildlife Importance of the Environment to Stakeholders Genetics and Breeding Reproductive Management Processing Broiler Birds Food Safety Technology in Animal Reproduction 	Not applicable

CUDIFOT	UNIT 2	
SUBJECT	PAPER 02	PAPER 032
Animation and Game Design	 User Experience Interactive Design Game Ratings Intellectual Property User Interface Design Types of Stories Core Dynamics Basic Principles of Animation Animation Movements Walk Cycles 	Not applicable
Applied Mathematics	 Linear Programming Assignment Models Graph Theory and Critical Path Analysis Logic and Boolean Algebra Probability Discrete Random Variables Continuous Random Variables Chi-square Test Coplanar Forces and Equilibrium Kinematics and Dynamics Work, Energy and Power 	 Linear Programming Continuous Random Variables Discrete Random Variables Coplanar Forces and Equilibrium Kinematics and Dynamics Work, Energy and Power
Art and Design	Production Paper	Not applicable

CUDICAT	UNIT 2	
SUBJECT	PAPER 02	PAPER 032
Biology	 Photosynthesis and ATP Synthesis Ecological Systems, Biodiversity and Conservations The Uptake and Transport of Water and Minerals The Circulatory System of Mammals Health and Disease Immunology 	 Photosynthesis and ATP Synthesis The Uptake and Transport of Water and Minerals Health and Disease
Building and Mechanical Engineering Drawing	Building Drawing and Design 1. Shear Force and Bending Moments 2. Reactions Calculations 3. Producing Detail Sections 4. Sieve Analysis 5. Estimating and Calculating Materials for Building Works 6. The Design Process 7. Network Diagrams Analysis	
	Mechanical Engineering Drawing and Design 1. Simple Supported Beam 2. Calculation of Reactions 3. Graphical Solution 4. Sectional Views of Pyramids 5. Metals, Irons and Steels 6. Alloys 7. Plastics 8. Material Selections 9. Lubricants 10. Automotive Breaking Systems 11. Flanged Couplings	Not applicable

CURIECT	UNIT	UNIT 2	
SUBJECT	PAPER 02	PAPER 032	
Chemistry	 Functional Group Analysis Acid/Base Character of Organic Compounds Macromolecules Mass Spectroscopy Chromatographic Methods Solvent Extraction Crude Oil Chlorine Solid Waste 	 Functional Group Analysis, Reactions and Mechanisms Titrimetric Methods of Analysis Water 	
Computer Science	 Data Structures Software Engineering Operating Systems and Computer Networks 	Data Structures Software Engineering Operating Systems and Computer Networks	
Digital Media	 Production Plan Design Principles (for example, The Prominence of the Subject Digital Media Platforms and Formats Website Creation Storyboard Wireframe Trends in Digital Media Mobile Applications Development High-fidelity Mobile Application Mock-up 	 Review CXC SBA for Unit 2 guide and IA sample Drafting Digital Media Concept Creation of Rough Drafts for the Digital Media Product Creation of Audio-visual File Creation of Digital Promotional Materials Rationale for Product or Service Description of Target Audience Developing a Comprehensive Budget Identification and Description of Technology Tools for the Development of Digital Media Product Description of Methods for the Development of the Digital Media Product Preparation of Production Schedule, Brainstorming Chart, Storyboard, Rough Design, Wireframe, Mock-up, Digital Media Product, Mobile Application 	

SUBJECT	UNIT 2	
	PAPER 02	PAPER 032
Economics	 National Income Accounting Classical Models of the Macroeconomy Basic Keynesian Models Unemployment and Inflation Monetary Theory and Policy Fiscal Policy Growth and Sustainable Development International Trade Balance of Payments and Exchange Rates Economic Integration 	 National Income Accounting Classical Models of the Macroeconomy Basic Keynesian Models Unemployment and Inflation Fiscal Policy Public Debt Growth and Sustainable Development International Trade Economic Integration International Economic Relations Theme: Offshore Financial Services in the Caribbean

SUBJECT	UNIT 2	
SUBJECT	PAPER 02	PAPER 032
Electrical and Electronic	Option A: Electronic Engineering Technology	
Engineering Technology	Communication Engineering 1. Ground Wave Propagation 2. FM Receiver 3. Modulated Waves	
	Analogue and Digital Electronics 1. N-type and P-type Semiconductor Materials 2. Diode Circuits 3. Summing Amplifier	
	Control Systems 1. SCADA 2. PLC Ladder Diagram	
	Option B: Electrical Engineering Technology	Not applicable
	Power Machines and Systems 1. DC Machines 2. Shunt DC Generator 3. Distribution Transformer System 4. Circuit Breakers	
	Introduction to Renewable Energy Systems 1. Solar Water Heater 2. Solar Photovoltaic (PV) Power Generation 3. Geothermal Power Plant	
	Power Generation Engineering 1. Transmission Grid Synchronization 2. Hydroelectric Power Plant 3. Wind Turbine System	

SUBJECT	UNIT 2	
SOBJECT	PAPER 02	PAPER 032
Entrepreneurship Environmental Science	 Legal and Regulatory Framework Types, Risks and Benefits of Ventures Business Ethics and Corporate Social Responsibility Financial Statements Business Plan and Business Model Market Research and Feasibility Analysis Myths and Approaches to E-Commerce Venture Life Cycle, Venture Models and Venture Valuation Online Potential, Online Selling and Growing the Venture Comparison and Contrast of Agricultural Systems in The Caribbean Explanation of the Roles of Agriculture in The 	 Legal and Regulatory Framework Types, Risks and Benefits of Ventures Business Ethics and Benefits of Ventures Financial Statements Business Plan and Business Model Market Research and Feasibility Analysis Myths and Approaches to E-Commerce Venture Life Cycle, Venture Models and Venture Valuation Online Potential, Online Selling and Growing the Venture Compare and Contrast Agricultural Systems in The Caribbean Explanation of The Roles of Agriculture in The
	 Region 3. Assessment of the Impact of Agriculture on the Environment (environmental impact) 4. Explanation of the Features of Sustainable Agriculture 5. Threats to Sustainable Agriculture Natural Disasters Climate Change 6. Presentation and Interpretation of Data Using Appropriate Charts, Tables and Graphs 7. Description of the Nature, Form and Conversion of Energy 8. Characteristics of Various Energy Sources Fossil Fuels and Solar 9. Evaluation of The Use of Renewable Energy 10. Factors Affecting Electricity Generating Capacity and Demand 11. The Impact of Various Forms of Energy in The Environment 	 Region Assessment of The Impact of Agriculture on the Environment (environmental impact) Evaluate Environmentally Sustainable Practices in Agricultural Systems Presentation and Interpretation of Data Using Appropriate Charts, Tables and Graphs Description of the Nature, Form and Conversion of Energy Characteristics of Various Energy Sources Nuclear, Wind and Hydroelectric Impact of Various Forms of Energy in the Environment Interpretation of Data Using Appropriate Charts, Tables and Graphs Description of the General Sources and Nature of Pollutants The Underlying Causes of Pollution

SUBJECT	UNIT 2	
SOBJECT	PAPER 02	PAPER 032
	 Identification of Environmental Receptors of Specific Pollutants Description of Various Pathways of Pollution in the Ecosystem and the Biosphere Underlying Causes of Pollution Discussion of the Major Sources, Impact and Mitigation of Pollution (air and land) Discussion of the Importance of International Conventions and Agreements Regarding Pollution Control Interpretation of Data Using Appropriate Charts, Tables and Graphs 	 Discussion of the Major Sources, Impact and Mitigation of Pollution (water). Analysis of the Environmental Impacts of Pollution from Specific Sources Assessment of the Effectiveness of Measures to Mitigate Environmental Impacts of Pollution Interpretation of Data Using Appropriate Charts, Tables and Graphs
Financial Services Studies	 Compliance and Financial Regulation Career Possibilities in the Financial Services Industry Concept of Private Banking and the Types of Products and Services Offered within the Offshore Environment Financial Derivatives Ponzi Schemes Cybercrime and Cybersecurity Offshore Banking Licences and Offshore Banking Jurisdictions Foreign Account Tax Compliance Financial Reporting Ratio Analysis (including calculations) 	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.

CURIFOT	UNIT	UNIT 2	
SUBJECT	PAPER 02	PAPER 032	
Food and Nutrition	 Tools and Equipment Used in Preparing Indigenous Caribbean Dishes Nutritional Value of Indigenous Foods and Dishes Food Systems in The Caribbean Recipe Development Nutrition and Natural Disaster Food Processing Food Preservation Food Labels Food Packaging Pricing of Food Use of Biotechnology and Food Additives Multi-mix Principle Menu Planning Sensory Evaluation 	Not applicable	
French	 Impact of Information and Communication Technologies (ICTs) on Social and Economic Life Disease Prevention and Cure Genetic Practices New Trends in Business Relationships Between French-speaking and Non-French Speaking Countries 	Not applicable	

SUBJECT	UNIT 2	
SOBJECT	PAPER 02	PAPER 032
Geography	 Map Reading Skills Agriculture Transect Surveys Urbanization Types of Economics Activity Settlements Spearman's Rank Solar Radiation Tricellular Model Global Vegetation Type (Global Vegetation Distribution) Industrialization and Economic Activity Agricultural and Climate Change Development Disparities in Development Life Expectancy Friedmann's Core Periphery Model 	 Synoptic Charts and Isobars Soil Types and Textures Von Thunen Types of Economic Activity Economics Sectors Tourism Disparities of Development Measures of Development
Green Engineering	 Justification of the Utilization of Energy Resources Evaluation of the Environmental Consequences of Different Energy Sources The Laws of Thermodynamics Entropy and Enthalpy Sustainable Transportation Safety Issues Related to the Design of Products or Engineering Infrastructure Stages of the Product Design Process The Use of Natural (including vegetable fire) and Synthetic Materials in the Manufacturing of Engineering Products Sustainable Use of Materials Sustainable Design in Manufacturing of Engineering Products Design and Construction of a Proposed Solution 	Not applicable

SUBJECT	UNIT	UNIT 2	
SOBJECT	PAPER 02	PAPER 032	
History	 European Enlightenment Industrialization in the USA The Russian Revolution Decolonization in Africa: Ghana The Apartheid System in South Africa The Historical Justification for Reparations 	Not applicable	
Information Technology	 Files and Databases Normalization Data Flow Diagram (DFD) Entity Relationship Diagrams (ERD) Use of Information Technology Tools Types of Application Software Formatting, Displaying or Presenting Information Characteristics of Information IT Tools for Sourcing Information Remotely Webpages Information Systems in Human Activities Computer Crimes Cybersecurity Policy and Practices Computer Security, Health and Safety, and Environmental Risks Licensing Arrangements Social Implications of Interacting in an Online Environment 	 Information Technology Problems Use of Information Technology Tools to Solve real life Problems Implementing IT solutions Entity relationship diagrams (ERD) Structured query language (SQL) 	
Law	 Tort: Strict liability and Vicarious liability Contract: Contractual Terms of a Contract, Doctrine of Privity of Contract and Illegal Contracts Real Property: Types of Land Ownership and Coownership 	1. Occupier's Liability	

CUD IF OT	UNIT 2	
SUBJECT	PAPER 02	PAPER 032
Literatures in English	 Extended Essay Paper — Three Sections 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. Section B (Poetry) will comprise TWO questions, one on each of the prescribed poets. Candidates must answer ONE question. Section C (Prose Fiction) will comprise TWO questions. Candidates must answer ONE question with reference to ONE of the three prescribed texts. 	Extended Essay Paper — THREE questions (ONE on each module) Candidates must write a critical appreciation of an excerpt from a play, a poem and a prose extract.
Logistics and Supply Chain Management	 Issues Related to Shipping Shipping Policies An overview of commercial shipping Port Classification and Functions Role of Stakeholders in Efficient Port Operations Role of Ports in Logistics Logistics Transforming Economies 	 Components of Commercial Shipping Issues Relating to Shipping Port Classification and Functions Role of Ports in Logistics Logistics Transforming Economies

SUBJECT	UNIT 2	
SOBJECT	PAPER 02	PAPER 032
Management of Business	 Nature of Production Layout Strategies Project Management The Marketing Environment Product Management Distribution Strategies Size And Growth of a Business Business and Economic Systems Challenges and Opportunities faced by Small Businesses 	 Economies and Diseconomies of Scale Productivity Project Management Marketing Research Pricing Decisions Internet Marketing Marketing Concept Size and Growth of Business Business Planning
Performing Arts	Practical Assignment	Not applicable
Physical Education and Sport	 Statics Biomechanics Relationship Among Forces Concept of Energy Principles of Motion Relevant to Sports Contribution of Sport to the Economy Legal Issues in Sport Ethical Issues in Sport Historical Development of Technology in Sport Methods Used to Disseminate Information Use of Technology to Enhance Sport Event Management 	Not applicable

CUDIFOT	UNIT 2	
SUBJECT	PAPER 02	PAPER 032
Physics	 Electrical quantities Electrical circuits Alternating Currents P-n junction diode Particulate Nature of Electromagnetic Radiation Radioactivity Circuit Diagrams 	 Capacitors Particulate Nature of Electromagnetic Radiation Operational Amplifiers
Pure Mathematics	 Module 1 Roots of the General Quadratic Equation Principal Value of the Argument Modulus and Argument of a Complex Number De Moivre's Theorem Concept of Implicit Differentiation Partial Fractions Integration of Rational Functions Integration of Exponential and Logarithmic Functions Integration by Parts for Combination of Functions Module 2 The nth Partial Sum as the Sum of the First m Terms of the Sequence Mathematical Induction to Establish Properties of a Series Method of Differences Taylor Theorem for the Expansion of Series Expansion of (a+b)ⁿ Application of the Binomial theorem to Real World Problems Test for the Existence of a Root of f(x) Interval Bisection to Find an Approximation for a Root in a given Interval Linear Interpolation 	 Module 1 Complex Numbers in the Form a + bi Modulus and Argument of Complex Numbers The Argand Diagram Approximation Using the Trapezium Rule Substitutions to Integrate Functions Integration of Inverse Trigonometric Functions Module 2 Mathematical Induction to Establish the Properties of Sequences Test for the Existence of a Root of f(x); Newton-Raphson Method to Find Successive Approximations Use of Iterations to Determine a Root of an Equation Module 3 Number of Ways of Choosing r Distinct Objects from a Set of n Objects Properties of Probability Solution of First Order Linear Differential Equations Using an Integrating Factor with Boundary Conditions

SUBJECT	UNIT 2		
	PAPER 02	PAPER 032	
	 Module 3 Number of Ways of Arranging n Distinct Objects Number of Ways of Choosing r Distinct Objects From n Properties for Determining Probabilities of Events Determinants of n x n Matrices Inverting a Non-singular 3 x 3 matrix Solution of a System of Linear Equations Use of the Property P(A B) = P(A∩B) P(B) Solution of First Order Linear Differential Equations Solution of Second Order Differential Equations 		
Sociology	 Sociological Perspectives of Population For example, Malthusian, Marxism, Neo-Malthusian, Demographic Transition Theory Quantitative and qualitative Measures Used for Explaining Trends in Population for Developed and Developing Countries Population Policy Concepts Development Crime and Deviance Criminal Behaviour Perspectives on Crime and Deviance Effectiveness of the Institutions of Social Control Caribbean Social Issues: Poverty, Health and Environment Sociological Perspectives on the Causes and Effects of The Social Issue Causes (influences) Effects (positive and negative impacts) 	Not applicable	

SUBJECT	UNIT 2		
	PAPER 02	PAPER 032	
	 Trends in the Particular Social Issue in The Caribbean Measures to Address The Social Issue 		
Spanish	 Social Unrest Home-based Work (Work from Home) Genetic Practices Disease Prevention and Cure Information Communication Technology and Social Life Information Communication Technology and Economic Life 	All the novels and themes are selected for the examination, as per the syllabus. However, the students will select questions based on the novels and themes studied in their respective schools.	
Tourism	 Niche Markets The Nature of Tourism Products and Services Customer Service and Service Quality Marketing Concepts Methods of Segmentation Key Marketing Tools Distribution Channels Marketing Plan Entrepreneurship — Concepts Attitudes and Behaviours of Successful Tourism Entrepreneurs 	 Marketing Plan Methods of Segmentation Components of a Business Plan for a Tourism Opportunity 	