MERIDIAN SECONDARY SCHOOL END OF YEAR FORMAT AND TOPICS SECONDARY 3 NORMAL TECHNICAL

Subject	Format	Topics to be tested
English (NT)	Paper 1: Writing Total Marks: 70 Duration: 1h 20min Paper 2: Language Use and Comprehension Total Marks: 50 Duration: 1h 20min Paper 3: Listening Total Marks: 20 Duration: About 45min	Paper 1 Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks) Paper 2 Part 1: Modified Cloze I (10 marks) Part 2: Modified Cloze II (10 marks) Part 3: Comprehension 1 & Comprehension 2 (40 marks)
English (NA)	Paper 1: Writing Total Marks: 70 Duration: 1h 50 min Paper 2: Language Use and Comprehension Total Marks: 50 Duration: 1h 50min Paper 3: Listening Total Marks: 30 Duration: About 45min	Paper 1 Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks) Paper 2 Section A: Visual Text (5m) Section B: Narrative Text (20m) Section C: Non-narrative Text (25m)
Mother Tongue	ML: P1: 30 min (10 marks) P2: 40 min (25 marks) P3: 30 min (20 marks) CL: P1: 30 min (10 marks) P2: 40 min (25 marks) P3: 30 min (20 marks)	Paper 1: Functional Writing and Essay Paper 2: Language Use and Comprehension Paper 3: Listening Comprehension
Mathematics (NT)	Paper 1 1 hour 30 minutes 50 marks Paper 2 1 hour 30 minutes 50 marks	Topics to be tested: Chapter 1: Indices and Standard Form Chapter 2: Map Scales Chapter 3: Algebraic Expansion, Fractions and Expression for the nth Term of a Number Chapter 4: Factorisation and Formulas Chapter 5: Arc Length and Sectors Areas Chapter 6: Pyramids, Cone and Sphere Chapter 7: Graphs of Linear Equations Chapter 8: Simultaneous Linear Equations Lower Sec Topics Numbers Angles Linear Equation in one Variable Proportion Cylinders Data Analysis - Bar chart and pie chart

		Probability
		Rate and Speed
Mathematics (NA)	Paper 1: 1 h 30 mins, 60 marks (50%) Paper 2: 1 h 30 mins, 45 marks (50%)	Chapter 1 Algebraic Manipulation Chapter 2 Quadratic Equations Chapter 3 Graphs of Quadratic Functions Chapter 4 Indices Chapter 5 Congruence and Similarity Chapter 6 Coordinate Geometry Chapter 7 Functions and Graphs Chapter 8 Trigonometric ratios Chapter 9 Further Trigonometry
Science (NT)	Paper 1: E-Examination (1 h 15 min) - 50 marks Paper 2: Written Paper (1h) - 50 marks	Topic 1: Energy Topic 2: Electricity Topic 3: Waves Topic 4: Effects of Forces Topic 5: Sources of Food Topic 8: Staying Healthy Topic 9: Digestion
Science (Phy/Chem) (NA)	Duration: Two sessions for 2 of the 3 Science components; a total of 1 hour 15 min for each session comprising Paper 1 & 2 (Phy), or 3 & 4 (Chem) Paper 1, 3: 20 Multiple Choice Questions (20 marks) Paper 2, 4: Structured / Free Response Questions (30 marks)	Chemistry (Papers 3 and 4): Ch 1 Experimental Techniques Ch 1 Methods of Purification and Analysis Ch 2 Kinetic Particle Theory Ch 3 Atomic Structure Ch 5 Elements, Compounds and Mixtures Ch 4 & 5 Chemical Bonding (Ionic & Covalent) Ch 7 Mole Concept Ch 8 Acids & Bases Physics (Papers 1 and 2): Chapter 1: Physical Quantities, Units and Measurements Chapter 2: Kinematics Chapter 3: Force and Pressure Chapter 4: Dynamics Chapter 6: Energy Chapter 7: Kinetic Particle Model of Matter Chapter 8: Thermal Processes
СРА	Theory and Practical	Chapter 9: General Wave Properties 1: Introduction Computer Fundamentals, Media Elements (Inkscape & Video Making), Spreadsheet, Game Making, Document Processing, Interactive Multimedia Communication
Art	Paper 1 - Art Task - 3 Hrs	Preparatory Studies + Final Artwork based on a given theme

D&T	Written Paper	Design, Mechanism, Electronics
EBS	Written Paper	Chapter 1: Introduction to Business Chapter 2: The 3 industries - Travel and Tourism, Retail and Hospitality industries Chapter 3: Introduction to Marketing Chapter 4: The Marketing Mix Chapter 5: Communication with the Customer Chapter 6: Customer Service

MERIDIAN SECONDARY SCHOOL END OF YEAR FORMAT AND TOPICS SECONDARY 3 NORMAL ACADEMIC

Subject	Format	Topics to be tested
English (NA)	Paper 1: Writing Total Marks: 70 Duration: 1h 50 min Paper 2: Language Use and Comprehension Total Marks: 50 Duration: 1h 50min Paper 3: Listening Total Marks: 30 Duration: About 45min	Paper 1 Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks) Paper 2 Section A: Visual Text (5m) Section B: Narrative Text (20m) Section C: Non-narrative Text (25m)
English (O)	Paper 1: Writing Total Marks: 70 Duration: 1h 50 min Paper 2: Language Use and Comprehension Total Marks: 50 Duration: 1h 50min Paper 3: Listening Total Marks: 30 Duration: About 45min	Paper 1 Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks) Paper 2 Section A: Visual Text (5m) Section B: Narrative Text (20m) Section C: Non-narrative Text (25m)
Mother Tongue	P1: 2 hr (60 marks) P2: 1hr 30 min (60 marks) P3: 30 min (20 marks)	Paper 1: Functional Writing and Essay Paper 2: Language Use and Comprehension Paper 3: Listening Comprehension
Mathematics (NA)	Paper 1: 1 h 30 mins, 60 marks (50%) Paper 2: 1 h 30 mins, 45 marks (50%)	Chapter 1 Algebraic Manipulation Chapter 2 Quadratic Equations Chapter 3 Graphs of Quadratic Functions Chapter 4 Indices Chapter 5 Congruence and Similarity Chapter 6 Coordinate Geometry Chapter 7 Functions and Graphs Chapter 8 Trigonometric ratios Chapter 9 Further Trigonometry
Mathematics (O)	Paper 1 1 hour 30 minutes 60 marks Paper 2 1 hour 30 minutes 60 marks	Topics to be tested: Chapter 1: More About Quadratic Equations and Quadratic Functions Chapter 2: More About Linear Inequalities Chapter 3: Indices Chapter 4: Coordinate Geometry Chapter 5: Functions and Graphs (All except 5.5) Chapter 6: Conditions of Congruence and Similarity Chapter 7: Further Trigonometry Chapter 8: Application of Trigonometry

		Chapter 9: Arc Length and Sector Areas (Only 9.1 and 9.2 will be tested)
		Lower Secondary Content tested • Factors and Multiples • Algebraic Manipulation and Algebraic Fractions • Expansion and Factorisation • Simple Linear Equations • Pythagoras' Theorem • Trigonometric Ratios • Mensuration • Mean, median, Mode
POA (NA)	Paper 1 - 1 hour Paper 2 - 1 hour 30 mins	Topic 1: Introduction to Accounting Topic 2: Elements of the Financial Statements and the Accounting Equation Topic 3: Double-entry Recording Topic 4: Trial Balance Topic 5: Financial Statements Topic 6: Accounting Information System Topic 7: Cost of Sales and Other Expenses Topic 8: Revenue and Other Income Topic 9: Cash and bank reconciliation Topic 10: Inventories Topic 11: Trade payables Topic 12: Trade Receivables and Allowance for impairment Topic 13: Financial statements (with adjustments)
Science (Phy/Chem) (NA)	Duration: Two sessions for 2 of the 3 Science components; a total of 1 hour 15 min for each session comprising Paper 1 & 2 (Phy), or 3 & 4 (Chem) Paper 1, 3: 20 Multiple Choice Questions (20 marks) Paper 2, 4: Structured / Free Response Questions (30 marks)	Chemistry (Papers 3 and 4): Ch 1 Experimental Techniques Ch 1 Methods of Purification and Analysis Ch 2 Kinetic Particle Theory Ch 3 Atomic Structure Ch 5 Elements, Compounds and Mixtures Ch 4 & 5 Chemical Bonding (Ionic & Covalent) Ch 7 Mole Concept Ch 8 Acids & Bases Physics (Papers 1 and 2): Chapter 1: Physical Quantities, Units and Measurements Chapter 2: Kinematics Chapter 3: Force and Pressure Chapter 4: Dynamics Chapter 6: Energy Chapter 7: Kinetic Particle Model of Matter Chapter 8: Thermal Processes Chapter 9: General Wave Properties 1: Introduction

Science (Phy/Chem) (O)	Paper 1 (1 hour) 20 Multiple Choice Questions (Chemistry) + 20 Multiple Choice Questions (Physics/Biology) Paper 2/3 (1 hour 15 mins) 8-10 Structured Questions; last question carry 10 marks - 55 marks 1 Free Response Question - 10 marks	Science (Chemistry) 1. Experimental Chemistry 2. Kinetic Particle Theory 3. Atomic Structure 4. Chemical Bonding 5. Structures and properties of materials 6. Chemical formulae and equations 7. Acids and Bases 8. The Periodic Table 9. The Reactivity Series Science(Physics) 1. Physical Quantities, Units and Measurement 2. Kinematics 3. Force and Pressure 4. Dynamics (forces) 5. Turning Effect of Force 6. Energy 7. Kinetic Particle Model of Matter 8. Thermal Process 9. General Wave Properties 10. Electromagnetic Spectrum
Social Studies (NA)	Sect A: Source-based Case Study - 35 marks Sect B: Structured-Response Question - 15 marks Duration: 1 hour 45 minutes	Chapter 1 to 5 SBCS Skills: Inference, Comparison, Reliability & Evaluation/Assertion SRQ: SRQ 6 and 7
Elective Geography (NA)	Duration: 1 hour 15 mins Structured Response Questions: Sect A: Cluster 1: Geography in Everyday Life - 20 marks Sect B: Cluster 2: Climate (Topic 1.1 + 1.2 only) - 15 marks	Cluster: Everyday Life Topic 1: Thinking Geographically Topic 2: Sustainable Development Topic 3: Geographical Methods Cluster 2: Climate Topic 1.1 - Weather and Climate Topic 1.2 - Variations in air temperature across Earth's surface
Elective History (NA)	1h 50 mins Sect A: Source Based Question - 30 marks Sect B: Structured Essay Question - 20 marks (3 question choose 2)	Chapter 1, 2, 4 and 5 (3 is non examinable for NA) SBQ Skills: Inference, Comparison, Reliability & Evaluation
Art	Paper 2: Drawing and Painting (3hrs)	Paper 2: Preparatory Studies + Final Artwork based on chosen theme
D&T (O)	Written exam Total marks: 80, Duration 2 hrs	Design Mechanisms Electronics Structures

NFS	Written Paper Section A: 16 marks (Multiple Choice Questions) Section B: 40 marks (Short-Answer-Type Questions and Data-Response-Type Questions) Section C: 24 marks (Open-Ended Questions/Essay) Total: 80 Marks Duration: 1 hour 30 mins	Chap 1-9, 11-14
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MERIDIAN SECONDARY SCHOOL END OF YEAR FORMAT AND TOPICS SECONDARY 3 EXPRESS

Subject	Format	Topics to be tested
English (O)	Paper 1: Writing Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks) Total Marks: 70; Duration: 1h 50 min Paper 2: Comprehension Section A: Visual Text Compre (5m) Section B: Narrative Compre (20m) Section C: Non-Narrative Compre (25m) Total Marks: 50; Duration: 1h 50 min Paper 3: Listening Section A: 3 parts (22 marks) Section B: 1 part (8 marks) Total Mark: 30; Duration: About 45 min	Paper 1 Section A: Edit grammatical errors in given text. Section B: Write a text of 250 - 350 words with visual stimulus provided. Section C: Write a text of 350 - 500 words on one of the four topics set. Paper 2 Section A: Answer questions to one visual and one short text Section B: Answer questions to a narrative passage Section C: Answer questions to a non-narrative passage and complete a summary of the passage. Paper 3 Section A: Listen to recordings twice and respond to the questions. Section B: Listen to a recording once to complete a graphic organiser.
Mother Tongue	ML/ CL: P1: 2 hr (60 marks) P2: 1hr 30 min (70 marks) P3: 30 min (20 marks) MLB/CLB: P1: 50 min (20 marks) P2: 1hr (30 marks) P3: 30 min (20 marks) HCL: P1: 2 hours (80 marks) P2: 1 hour 45 mins (80 marks)	ML and CL Paper 1: Functional Writing and Essay Paper 2: Language Use and Comprehension Paper 3: Listening Comprehension MLB/CLB: P1: Functional Writing or Essay P2: Language Use and Comprehension P3: Listening Comprehension HCL Paper 1: Functional Writing and Essay Paper 2: Language Use and Comprehension
Mathematics (O)	Paper 1 1 hour 30 minutes 60 marks Paper 2 1 hour 30 minutes 60 marks	Chapter 1 : More About Quadratic Equations and Quadratic Functions Chapter 2 : More About Linear Inequalities Chapter 3 : Indices Chapter 4 : Coordinate Geometry Chapter 5 : Functions and Graphs (All except 5.5) Chapter 6 : Conditions of Congruence and Similarity Chapter 7 : Further Trigonometry

		Chapter 8 : Application of Trigonometry Chapter 9 : Arc Length and Sector Areas (Only 9.1 and 9.2 will be tested) Lower Secondary Content tested • Factors and Multiples • Algebraic Manipulation and Algebraic Fractions • Expansion and Factorisation • Simple Linear Equations • Pythagoras' Theorem • Trigonometric Ratios • Mensuration • Mean, median, Mode
Additional Mathematics (O)	One paper - 2 hour 15 mins 10 – 13 questions of varying marks and lengths. Candidates are required to answer all questions. Total marks: 90	Chapter 1 - Quadratic Functions Chapter 2 - Equations and Inequalities Chapter 3 - Surds Chapter 4 - Polynomials and Partial Functions Chapter 5 - Exponential and Logarithmic Functions Chapter 6 - Binomial Theorem Chapter 7 - Coordinate Geometry Chapter 8 - Circles Chapter 9 - Applications of Straight Line Graphs Chapter 10 - Trigonometric Functions
POA (O)	Paper 1 - 1 hour Paper 2 - 1 hour 30 mins	Topic 1: Introduction to Accounting Topic 2: Elements of the Financial Statements and the Accounting Equation Topic 3: Double-entry Recording Topic 4: Trial Balance Topic 5: Financial Statements Topic 6: Accounting Information System Topic 7: Cost of Sales and Other Expenses Topic 8: Revenue and Other Income Topic 9: Cash and bank reconciliation Topic 10: Inventories Topic 11: Trade payables Topic 12: Trade Receivables and Allowance for impairment Topic 13: Long-term Borrowings Topic 14: Financial statements (with adjustments) Topic 15: Adjustments to income and expenses
Science (Phy/Chem) (O)	Paper 1 (1 hour) 20 Multiple Choice Questions (Chemistry) + 20 Multiple Choice Questions (Physics/Biology) Paper 2/3 (1 hour 15 mins) 8-10 Structured Questions; last question carry 10 marks - 55 marks 1 Free Response Question - 10 marks	Science (Chemistry) 1. Experimental Chemistry 2. Kinetic Particle Theory 3. Atomic Structure 4. Chemical Bonding 5. Structures and properties of materials 6. Chemical formulae and equations 7. Acids and Bases 8. The Periodic Table 9. The Reactivity Series Science(Physics) 1. Physical Quantities, Units and Measurement 2. Kinematics

		 3. Force and Pressure 4. Dynamics (forces) 5. Turning Effect of Force 6. Energy 7. Kinetic Particle Model of Matter 8. Thermal Process 9. General Wave Properties 10. Electromagnetic Spectrum
Science (Bio) (O)	Section A 20 Multiple Choice Questions Section B 8-10 Structured Questions; last question carry 10 marks - 55 marks 1 Free Response Question - 10 marks Duration: 1 hour 15 mins	Chapter 1 Cell Structure and Function Chapter 2 Movement of Substances Chapter 3 Biological Molecules Chapter 4 Enzymes Chapter 5 Nutrition in Humans Chapter 6 Transport in Humans Chapter 7 Respiration Chapter 8 Infectious Diseases in Humans
Pure Chemistry (O)	Paper 1: 30 MCQs (45 min) - 30 marks Paper 2: Structured Questions & Free Response Questions (1 h 30 min) - 70 marks	Chapter 1: Experimental Chemistry Chapter 2: Kinetic Particle Theory Chapter 3: Atomic Structure Chapter 4: Chemical Bonding Chapter 5: Structures and Properties of Materials Chapter 6: Chemical Formulae and Equations Chapter 8: Acids and Bases Chapter 9: Salts Chapter 10: Ammonia Chapter 11: Qualitative Analysis Chapter 7: Mole Concept and Stoichiometry Chapter 12: Oxidation and Reduction Chapter 14: The Periodic Table
Pure Biology (O)	Paper 1 30 Multiple Choice Questions Paper 2 Section A: Structured Questions - 50 marks Section B: Free Response Questions - 20 marks	Chapter 1 Cell Structure and Organisation Chapter 2 Movement of Substances Chapter 3 Biological Molecules Chapter 4 Enzymes Chapter 5 Nutrition in Humans Chapter 6 Transport in Humans Chapter 7 Respiration in Humans Chapter 8 Excretion in Humans Chapter 9 Homeostatis and Hormonal Control

Pure Physics (O)	Paper 1: 30 MCQs (45 min) - 30 marks Paper 2: Structured Questions & Free Response Questions (1 h 30 min) - 70 marks	 Physical Quantities, Units and Measurement Kinematics Dynamics (mass and weight) Dynamics (forces) Turning Effect of Force Pressure Energy Kinetic Particle Model of Matter Thermal Process Thermal Properties of Matter General Wave Properties Electromagnetic Spectrum
Social Studies (O)	Sect A: Source-based Case Study - 35 marks Sect B: Structured-Response Question - 15 marks Duration: 1 hour 45 minutes	Chapter 1 to 6 SBCS Skills: Inference, Comparison, Reliability & Evaluation/Assertion SRQ: SRQ 6 and 7
Elective Geography (O)	1hr 30 mins Sect A: Geography in Everyday Life - 25 marks Sect B: Climate, Topic 1 - 15 marks, inclusive of 1 Open-ended Question	Geography in Everyday Life Cluster: Topics 1 - 3 Climate Cluster: Topic 1
Geography (O)	1hr 45mins Sect A: Stuctured Response, including GI (20 marks) Sect B: Stuctured Response (15 marks) Sect C: Stuctured Response (15 marks)	- Geography in Everyday Life, Topic 1 - 3 - Tourism, Topic 1 - 3 - Climate, Topic 1 - 2.2
Elective History (O)	Duration: 1hr 50min Section A: Source-based Case Study (30 m) Section B: Essay Questions (20 m)	Chapter 1 to 5 SBCS Skills: Message, Comparison, Purpose, Utility, Evaluation Essays
History (O)	Duration: 1 hr 50 Min. Section A: Source- based Case Study (30 m) Section B: Essay Questions (20 m)	Chapters 1 - 8 SBCS Skills: Message, Comparison, Purpose, Utility, Evaluation Essays
Elective Literature (O)	Section A - 1 Essay from Chrysalids (25m) Section B - 1 Essay on Unseen Poetry (25m) 1h 40mins	The Chrysalids - Chapters 1 to 10 Unseen poetry

Literature (O)	Paper 1: Questions from the Chrysalids (25m) Unseen Poetry (25m) Paper 2: Questions from The Crucible (50m) P2: 1hr 30mins	The Chrysalids: Chapters 1 to 10 The Crucible: Acts 1 & 2
Art (O)	Paper 2: Drawing amd Painting (3hrs) or Paper 3: Study of Visual Arts (2hrs) Section A: Two structured questions Section B: Two structured comparison questions	Paper 2: Preparatory Studies + Final Artwork based on chosen theme Paper 3: Art as Narrative and Inspiration (all artists); Art as Expression and Identity (all artists except Wassily Kandinsky and Wu Guanzhong); Art as Communication and Design (Chuanh Thean Teng and Takashi Murakami)
D&T (O)	Written exam Total marks: 80, Duration 2 hrs	Design Mechanisms Electronics Structures
NFS (O)	Written exam. Duration: 2 hours (section A: MCQ 15m, section B: Short Answer Qn 55m, section C: 2 Essay Qns 30m. Total:100m)	Chap 1-9, 11-14