Meridian Secondary School
Sec 3NT End-of-Year Examination Topics

Subject	Paper / Section	Marks	Type of Paper	Topics to be tested
English (NT)	1	70	Situational Writing (30 marks) Continuous Writing (30 marks) Editing (10 marks)	
	2	60	Modified Cloze 1 & 2 (20 marks) Comprehension 1 & 2 (40 marks)	
	3	20	Listening Comprehension	
English (NA)	1	70	Situational Writing (30 marks) Continuous Writing (30 marks) Editing (10 marks)	
	2	50	Section A (5 m) Section B (20 m) Section C (25 m)	
	3	30	Listening Comprehension	
	4	30	Oral Section A (15 marks) Section B (15 marks)	
Mother Tongue	1	35	Functional Writing (Free Response) Language & Comprehension Section A (10 marks) Section B (25 marks)	
	2	45	Oral Section A: (15 marks) Section B: (30 marks)	
	3	20	Listening Comprehension	
Mathematics (NT)	1	50	Approximately 14 questions covering a) Numbers and Algebra b) Geometry and Measurement	Chapter 1 Indices and Standard Form Chapter 2 Maps and Scales Chapter 3 Algebraic Expansions, Fractions and Number Sequences Chapter 4 Factorisation and Formulae Chapter 5 Arc Length and Sector Area Chapter 6 Pyramids, Cones and Spheres Chapter 7 Cumulative Frequency Chapter 8 Graphs of Linear Equations Chapter 9 Simultaneous Linear Equations In addition, the following lower secondary topics may be included: 1) Numbers 2) Ratio 3) Percentages
	2	50	Approximately 14 questions covering a) Numbers and Algebra b) Statistics and Probability One of the questions in either paper may be a problem with real-world context.	
Mathematics (NA)	1	60	Short-answer and structured questions.	All Sec 3 topics will be tested. In addition, the following lower secondary topics may be included: a) Numbers: Factors, Multiples, Prime Factorisation, Percentages and Ratio, b) Maps and Scales c) Linear Inequalities d) Algebra: 4 operations, Simultaneous Equations e) Geometry and Pythagoras' Theorem f) Statistical diagrams, Mean/Mode/Median g) Simple Probability
	2	45	Section A: 6-8 compulsory questions. Section B: 2 questions of which students will answer only one. One question will be from 'Geometry & Measurement' and one from 'Statistics & Probability'. Each question carries either 5 or 6 marks. One of the questions in Section A or Section B may be a problem in real-world context.	
Science (NT)	1	50	E-Exam	Chapter 1 Energy Chapter 2 Electricity Chapter 3 Wave Chapter 4 Effects of Force Chapter 8 Staying Healthy Chapter 9 Digestion Chapter 10 Breathing
	2	50	Structured Questions	
Science (NA)	1 & 2	50	Paper 1: (Physics) Multiple Choice [20 m] Paper 2: (Physics) Structured Questions [30 m]	**SCIENCE (PHYSICS)** Unit 1 : Physical Quantities, Units & Measurements Unit 2 : Kinematics Unit 3 : Forces and Pressure Unit 4 : Dynamics Unit 5 : Energy Unit 6 : Kinetic Particle Model of Matter Unit 7 : Thermal Processes Unit 8 : General Wave Properties **SCIENCE (CHEMISTRY)** 1. Experimental Techniques 2. Methods of Purification and Analysis 3. Kinetic Particle Theory 4. Atomic Structure 5. Elements, Compounds and Mixtures 6. Ionic & Covalent Bonding 7. Chemical Formula & Writing Chemical Equation 8. Acids Bases & Salts
	3 & 4	50	Paper 3: (Chemistry) Mulitple Choice [20 m] Paper 4: (Chemistry) Structured Questions [30 m]	
CPA (NT)	1	60	**Theory** Section A: 20 MCQ [20 marks] Section B: Short-Structured Questions [40 marks]	Computer Fundamentals (CPF) Media Elements (MEL) - Graphics (Inkscape), Video (Openshot) Document Processing (DOP) - MS Word Spreadsheet (SST) - MS Excel Interactive Multimedia Communication (IMC) - MS Powerpoint Animation and Game Making (AGM) - Scratch
	2	70	**Practical** 3 related tasks on MEL, DOP and IMC	
	3	70	**Practical** 3 tasks on MEL, SST and AGM	
Art	1	40%	ArtTask	
	2	60%	Portfolio	

EBS	1	100	Written Paper	Chapter 1: Introduction to Business
				Chapter 2: Businesses in the Service Industries
				    2.1: The Travel and Tourism Industry
				    2.2: The Hospitality Industry
				    2.3: The Retail Industry
				Chapter 3: Introduction to Marketing
				Chapter 4: The Marketing Mix
				Chapter 5: Communication with the Customers
				Chapter 6: Customer Service

D&T	1	30%	**Written Paper** 30% [50 marks] - 3 short questions set based mainly on Design content section (18 marks) - 2 design application questions relating to mechanisms and electronics from the Technology content section; one question on each area (32 marks)	Design Mechanisms Selected Sub-topics from Electronics
	2	70%	Design Project	

Meridian Secondary School
Sec 3NA End-of-Year Examination Topics

Subject	Paper / Section	Marks	Format — Type of Paper	Topics to be tested
English (NA)	1	70	Situational Writing (30 marks) Continuous Writing (30 marks) Editing (10 marks)	
	2	50	Section A (5 m) Section B (20 m) Section C (25 m)	
	3	30	Listening Comprehension	
	4	30	Oral Section A (15 marks) Section B (15 marks)	
English (O)	1	70	Situational Writing (30 marks) Continuous Writing (30 marks) Editing (10 marks)	
	2	50	Section A (5 m) Section B (20 m) Section C (25 m)	
	3	30	Listening Comprehension	
	4	30	Oral Section A (15 marks) Section B (15 marks)	
Mother Tongue	1	60	Section A - (20 marks) Functional Writing (Free Response) Q1: Forum/Blog Q2: Formal Email Writing Section B - (40 marks) Essay Writing Q1: Descriptive Q2: Expository Q3: Narrative	
	2	60	Language & Comprehension (60 marks) Sec A (10 marks) Sec B (50 marks)	
	3	80	Listening Comprehension - (20 marks) Oral - (60 marks)	
Mathematics (NA)	1	60	Short-answer and structured questions.	All Sec 3 topics will be tested. In addition, the following lower secondary topics may be included: a) Numbers: Factors, Multiples, Prime Factorisation, Percentages and Ratio, b) Maps and Scales c) Linear Inequalities d) Algebra: 4 operations, Simultaneous Equations e) Geometry and Pythagoras' Theorem f) Statistical diagrams, Mean/Mode/Median g) Simple Probability
	2	45	Section A: 6-8 compulsory questions. Section B: 2 questions of which students will answer only one. One question will be from 'Geometry & Measurement' and one from 'Statistics & Probability'. Each question carries either 5 or 6 marks. One of the questions in Section A or Section B may be a problem in real-world context.	
Mathematics (O)	1	60	Approximately 19 short-answer and structured questions.	All Sec 3 topics will be tested except Chap 10 (Properties of Circle) In addition, the following lower secondary topics may be included: a) Numbers b) Geometrical Construction c) Statistical Diagrams d) Mean, Mode, Median
	2	60	6 - 7 structured and long-answer questions. One of the questions may be a problem with real-world context.	
POA (NA)	1	40	Answer 3 to 4 compulsory structured questions.	All Sec 3 topics will be tested.
	2	60	Answer 3 to 4 compulsory structured questions. • One question requires the preparation of financial statements for a business for one financial year. • A scenario-based question will be part of one of the remaining questions.	

Subject	Paper / Section	Marks	Type of Paper	SCIENCE (PHYSICS)	SCIENCE (CHEMISTRY)
Science (NA)	1 & 2	50	Paper 1: (Physics) Mulitple Choice [20 m] Paper 2: (Physics) Structured Questions [30 m]	Unit 1 : Physical Quantities, Units & Measurements Unit 2 : Kinematics Unit 3 : Forces and Pressure Unit 4 : Dynamics Unit 5 : Energy Unit 6 : Kinetic Particle Model of Matter Unit 7 : Thermal Processes Unit 8 : General Wave Properties	1. Experimental Techniques 2. Methods of Purification and Analysis 3. Kinetic Particle Theory 4. Atomic Structure 5. Elements, Compounds and Mixtures 6. Ionic & Covalent Bonding 7. Chemical Formula & Writing Chemical Equation 8. Acids Bases & Salts
	3 & 4	50	Paper 3: (Chemistry) Mulitple Choice [20 m] Paper 4: (Chemistry) Structured Questions [30 m]		
Science (O)	1	40	Mulitple Choice	SCIENCE (PHYSICS) Unit 1 : Physical Quantities, Units & Measurements Unit 2 : Kinematics Unit 3 : Forces and Pressure Unit 4 : Dynamics Unit 5 : Turning Effect of Forces Unit 6 : Energy Unit 7 : Kinetic Particle Model of Matter Unit 8 : Thermal Processes Unit 9 : General Wave Properties Unit 10: Electromagnetic Spectrum	SCIENCE (CHEMISTRY) 1. Experimental Techniques 2. Methods of Purification and Analysis 3. Kinetic Particle Theory 4. Atomic Structure 5. Elements, Compounds and Mixtures 6. Ionic & Covalent Bonding 7. Chemical Formula & Writing Chemical Equation 8. Acids & Bases 9. Periodic Table
	2	65	(Physics) Structured Questions		
	3	65	(Chemistry) Structured Questions		

Subject	Paper / Section	Marks	Type of Paper	Topics to be tested
Social Studies (NA)	1	50	Source-Based Case Study [35 m] Structured-Response Questions [15 m]	Chap 1: What does citizenship means to me? Chap 2: What are the functions and roles of the government in working for the good of society? Chap 3: How do we decide what is good for society? Chap 4: How can we work together for the good of the society? Chap 5: What are the factors that shape the identities of people and contribute to a diverse society?
Elective Geography (NA)	1	50	Structured Questions [50m]	Book: Geography in Everyday Life
Elective History (NA)	2	50	Source Based Case Study (30m) (Qn 1(a) - (e)) Structured Essay Questions (20m) Choose 2 out of 3 questions worth 10m each	Chap 1: Aims of PPC & Impact on Europe in 1920s Chap 2: Nazi Germany Chap 3: World War II in Europe Chap 4: World War II in Asia Pacific* Chap 5: World War II in Asia Pacific* *topics examinable are subject to changes

Art	1	60%	Coursework	
	2	40%	Drawing & Painting	
NFS	1	40%	Theory [80m]	**Theory** Chap 4 & 5 Micronutrients - Vitamins & Mineral Chap 6: Water & Dietary Fibre Chap 7: Diet & Health Problems Chap 8: Meal Planning Chap 11: Preparation & Cooking of Food Chap 12: Methods of Cooking Chap 13: Reactions in Food During Preparation & Cooking
	2	60%	Coursework [54m]	**Coursework** Research, Decision making, Investigation, Planning, Execution (omit Evaluation)
D&T	1	40%	**Written Paper (2hr) - 40% [80 marks]** - One case-based design question set based mainly on Design content section (26 marks) - 3 design application questions relating to structures, mechanisms and electronics from the Technology content section; one question on each area (54 marks)	1. Design 2. Structures 3. Mechanisms 4. Selected Sub-topics from Electronics
	2	60%	Design Project	

Subject	Format			Topics to be tested	
	Paper / Section	Marks	Type of Paper		
English (O)	1	70	Situational Writing (30 marks) Continuous Writing (30 marks) Editing (10 marks)		
	2	50	Section A (5 m) Section B (20 m) Section C (25 m)		
	3	30	Listening Comprehension		
	4	30	Oral Section A (15 marks) Section B (15 marks)		
Mother Tongue	1	60	Section A - (20 marks) Functional Writing (Free Response) Q1: Forum/Blog Q2: Formal Email Writing Section B - (40 marks) Essay Writing Q1: Descriptive Q2: Expository Q3: Narrative		
	2	70	Language & Comprehension (60 marks) Sec A (40 marks) Sec B (30 marks)		
	3	70	Listening Comprehension - (20 marks) Oral - (50 marks)		
Mathematics (O)	1	60	Approximately 19 short-answer and structured questions.	All Sec 3 topics will be tested except Chap 10 (Properties of Circle) In addition, the following lower secondary topics may be included: a) Numbers b) Geometrical Construction c) Statistical Diagrams d) Mean, Mode, Median	
	2	60	6 - 7 structured and long-answer questions. One of the questions may be a problem with real-world context.		
Additional Mathematics (O)	1	90	Approximately 13 questions of varying marks and lengths. One of the questions may be a problem with real-world context.	Chapter 1 Quadratic Functions Chapter 2 Equations and Inequalities Chapter 3 Surds Chapter 4 Polynomials and Partial Fractions 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)	1	40	Answer 3 to 4 compulsory structured questions.	All Sec 3 topics will be tested.	
	2	60	Answer 3 compulsory structured questions. One question requires the preparation of financial statements.		
Science (O)	1	40	Mulitple Choice	SCIENCE (PHYSICS) Unit 1 : Physical Quantities, Units & Measurements Unit 2 : Kinematics Unit 3 : Forces and Pressure Unit 4 : Dynamics Unit 5 : Turning Effect of Forces Unit 6 : Energy Unit 7 : Kinetic Particle Model of Matter Unit 8 : Thermal Processes Unit 9 : General Wave Properties Unit 10: Electromagnetic Spectrum	SCIENCE (CHEMISTRY) 1. Experimental Techniques 2. Methods of Purification and Analysis 3. Kinetic Particle Theory 4. Atomic Structure 5. Elements, Compounds and Mixtures 6. Ionic & Covalent Bonding 7. Chemical Formula & Writing Chemical Equation 8. Acids & Bases 9. Periodic Table
	2	65	(Physics) Structured Questions		
	3	65	(Chemistry) Structured Questions		
Chemistry (O)	1	30	Mulitple Choice	Chapter 1: Experimental Chemistry, Separation Methods Chapter 2: Kinetic Particle Theory Chapter 3: Atomic Structure Chapter 4: Chemical Bonding (Ionic, Covalent, Metallic) Chapter 5: Elements, Compounds, Mixtures Chapter 6: Chemical Equations Chapter 7: Mole Concept Chapter 8: Acids and Bases Chapter 9: Salts Chapter 11: Qualitative Analysis Chapter 14: Periodic Table Chapter 15: Metals	
	2	70	Structured & Free Response Questions		
Biology (O)	1	30	Mulitple Choice	Chapter 1 Cell Structure & 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 Homeostasis and Hormonal Control	
	2	70	Structured & Free Response Questions		
Physics (O)	1	30	Mulitple Choice	Unit 1 : Physical Quantities, Units & Measurement Unit 2 : Kinematics Unit 3 : Dynamics I - Mass & Weight Unit 4 : Dynamics II - Forces Unit 5 : Turning Effect of Forces Unit 6 : Pressure Unit 7 : Energy Unit 8 : Kinematic Particle Model of Matter Unit 9 : Thermal Processes Unit 10 : Thermal Properties of Matter Unit 11 : General Wave Properties I - Introduction Unit 12 : General Wave Properties II - Sound Unit 13 : Electromagnetic Waves	
	2	70	Structured & Free Response Questions		
Social Studies (O)	1	50	Source-Based Case Study [35 m] Structured-Response Questions [15 m]	Chap 1: What does citizenship means to me? Chap 2: What are the functions and roles of the government in working for the good of society? Chap 3: How do we decide what is good for society? Chap 4: How can we work together for the good of the society? Chap 5: What are the factors that shape the identities of people and contribute to a diverse society? Chap 6: What are the experiences` and effects of living in a diverse society?	

Subject	Paper	Weight/Marks	Format	Topics
Elective Geography (O)	1	50	Structured Questions Section A: Geography in Everyday Life (25m) Section B: Climate (25m)	Book: Geography in Everyday Life (Topic 1 - 3) Book: Climate (Topic 1 - 2)
Geography (O)	1	50	Structured Questions [50m]	Book: Geography in Everyday Life (Topic 1 - 3) Book: Tourism (Topic 1 - 3) Book: Climate (Topic 1 - 2)
Elective History (O)	2	50	Source Based Case Study (30m) (Qn 1(a) - (e)) Structured Essay Questions (20m) Choose 2 out of 3 questions worth 10m each	Chap 1: Aims of PPC & Impact on Europe in 1920s Chap 2: Nazi Germany Chap 3: Militarist Japan Chap 4: World War II in Europe Chap 5: World War II in Asia Pacific* *topics examinable are subject to changes
Elective Literature (O)	1	50	Section A: Choose 1 question (25m) Section B: Unseen Poetry (25m)	The Chrysalids (Up to Chapter 12)
Literature (O)	1	50	Novel & Poetry Section A: Choose 1 question (25m) Section B: Unseen Poetry	The Chrysalids (Up to Chapter 12) The Cruciel (Act 1 and 2)
	2	50	Play Choose from 2 essay questions, 1 compulsory question	
Art (O)	1	60%	Coursework	**Paper 3:** Artworks from themes Art as Narrative and Inspiration, Art as Communication and Design and, Art as Expression and Identity.
	2 or 3	40%	Paper 2: Drawing & Painting or Paper 3: Study of VIsual Arts	
NFS	1	40%	Theory [100 m]	**Theory** Chap 1-3: Macronutrients (Carbohydrates, Proteins and Fats) Chap 4 & 5 Micronutrients - Vitamins & Mineral Chap 6: Water & Dietary Fibre Chap 7: Diet & Health Problems Chap 8: Meal Planning Chap 9: Meal Analysis Chap 13: Reactions in Food During Preparation & Cooking
	2	60%	Coursework [72 m]	**Coursework** Research, Decision making, Investigation, Planning, Execution (omit Evaluation)
D&T	1	40%	**Written Paper (2hr) - 40% [80 marks]** - One case-based design question set based mainly on Design content section (26 marks) - 3 design application questions relating to structures, mechanisms and electronics from the Technology content section; one question on each area (54 marks)	1. Design 2. Structures 3. Mechanisms 4. Selected Sub-topics from Electronics
	2	60%	Design Project	