Sec 4 Normal (Academic)

Syllabus Coverage for Assessment in Mid-Year Examination 2016

ENGLISH LANGUAGE

S/N	Topics	Format / Weightings
1	Paper 1: Writing	
	Section A: Editing – Grammar	10 marks
	Section A: Situational Writing	30 marks
	Section B: Continuous Writing (Narrative, Discursive,	
	Descriptive)	30 marks
	Duration of Examination = 1hr 50mins	Total= 70 marks (35%)
2	Paper 2: Comprehension	
	Section A: Visual Text – structured questions	5 marks
	Section A: Narrative text – structured questions	20 marks
	Section B: Non-narrative text- structured questions	25 marks
	and summary	
	Duration of Examination = 1hr 50mins	Total= 50 marks (35%)
3	Paper 3: Listening	
	Skills assessed: Listening for main ideas, details and	
	inference	
	Section A: Multiple choice questions, matching and fill	
	in the blanks	24 marks
	Section B: Structured questions	6 marks
	Duration of Examination = 50mins	Total= 30 marks (10%)
4	Paper 4: Oral Communication	
	The two parts in this paper are thematically linked.	10 marks
	Part 1: Reading Aloud	
	Candidates read aloud a short text.	
	Part 2: Spoken Interaction	20 marks
	Candidates engage in a discussion with the	
	examiners on a topic based on a visual stimulus	
	Duration of Examination= About 20 minutes(including	
	10 minutes of Preparation time)	Total= 30 marks (20%)

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CHINESE LANGUAGE

中四普通学术课程年中考试

	项目	内容	必答 题数	分数	分数 比例	附注
1	年中考试试卷 (一) 2小时	作文	1	40	14 Pi	三选一
		实用文	1	20	30%	二选一
2	年中考试试卷	综合填空	10	10		
	1 小时 30 分钟`	理解测验	10	20		
		理解问答	8	30		
		总		60	30%	
3	年中考试试卷 (三)	听力考试 ● 选择题	10	20	10%	
		口试		20 40	30%	
		总		80	40%	
	总分			200	100%	

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CHINESE LANGUAGE

中四快捷课程年中考试 -"O" 水准直通车 (Direct "O" Level)

, .	测试	项目	必答	分数	分数	附注
	左上者) 14) 14 14	/h ->-	题数	40	比例	— \µ.
1	年中考试试卷	作文	1	40		三选一
	(-)	• 情境作文				
	2 小时	• 论说文				
		实用文	1	20		
		• 私人电邮				二选一
		• 公务电邮				
		总		60	30%	
2	年中考试 试卷	综合填空	10	10		
	(<u>_</u>)					
	1 小时 30 分钟					
		理解测验	10	20		
		理解问答	10	40		
				70	35%	
		<u>/</u> ድኑ		70	3370	
3	年中考试试卷	听力考试	10	20		
	(三)	选择题				
	, ,	,.				
		口试				
		朗读短文		10		
		• 看录像短片对		40		
		话				
				70	35%	
		总		. •	20,0	
		总分			100%	

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MALAY LANGUAGE

Kertas	Komponen	Markah / Timbangan	Catatan
1	Bahagian A: E-mel	20	Kamus Dewan
	Calon dikehendaki menjawab satu soalan		boleh digunakan
	daripada:		
	a) E-mel tidak formal		Masa
	b) E-mel formal		peperiksaan:
	Bahagian B: Karangan	40	2 jam
	Calon dikehendaki menjawab satu soalan		
	daripada karangan jenis:		
	a) Deskriptif/Naratif		
	b) Ekspositori		
	c) Naratif		
	Jumlah	60 (30%)	
2	Bahagian A1: Imbuhan	10	Kamus Dewan
	Bahagian A2: Peribahasa	5	tidak boleh
	Bahagian A3: Melengkapkan Teks	5	digunakan.
	Bahagian B: Grafik Stimulus	10	
	Bahagian C: Kefahaman	30	Masa
	Jumlah	60 (30%)	peperiksaan:
			1 jam 30 minit
3	Lisan		
	Bahagian A: Bacaan Lantang	20	
	Bahagian B: Perbualan Berdasarkan Video	40	
	Kefahaman Mendengar	20	Masa
			peperiksaan:
			30 minit
	Jumlah	80 (40%)	

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SCIENCE (Physics, Chemistry)

Duration of Examination: Paper 1 and 2: 1 hour 15 minutes
Paper 3 and 4: 1 hour 15 minutes

S/N	Topics	Format/ Weightings
Physi	<u>cs</u>	
1	Physical Quantities, units and Measurement	
2	Forces and Pressure	
3	Mass, Weight and Density	
4	Turning effect of Forces	
5	Energy, Work and Power	
6	Kinematics	
7	Kinetic model of matter	Paper 1 (Physics) (20 marks)
8	Transfer of thermal energy	Multiple Choice Questions
9	Thermal properties of matter	Paper 2 (Physics)
10	General wave properties	Paper 2 (Physics) Section A (14 marks)
11	Electromagnetic spectrum	Structured Questions
12	Sound	Section B (16 marks)
13	Current electricity	Free Response Questions
14	DC circuits	Choose 2 out of 3 questions
15	Practical Electricity	
Chem	nistry	
1	Kinetic Particle Theory	Paper 3 (Chemistry) (20 marks) Multiple Choice Questions
2	Measurement and Experimental Techniques	Widtiple Choice Questions
3	Separation and Purification	Paper 4 (Chemistry)
4	Elements, Compounds and Mixtures	Section A (14 mark) Structured Questions
5	Atomic Structure	
6	Chemical Bonding	Section B (16 marks) Free Response Questions
7	Writing Chemical Equations	Choose 2 out of 3 questions
8	The Mole (Stoichiometry in mass)	
9	Chemical Calculations (Stoichiometry in mass)	Total: 100 marks
10	Acids and Bases	
11	Salts	
12	Metals	
13	The Periodic Table	
14	The Atmosphere and Environment	
15	An Introduction to Organic Chemistry	
16	Alkanes and Alkenes	

Sec 4 Normal (Academic) Syllabus Coverage for Assessment in Mid-Year Examination 2016

SCIENCE (Chemistry, Biology)

Duration of Examination: Paper 3 and 4: 1 hour 15 minutes

Paper 5 and 6: 1 hour 15 minutes

S/N	Topics	Format/ Weightings
Chem	istry	
1	Kinetic Particle Theory]
2	Measurement and Experimental Techniques	
3	Separation and Purification]
4	Elements, Compounds and Mixtures]
5	Atomic Structure	Paper 3 (Chemistry) (20
6	Chemical Bonding	<u>marks)</u> Multiple Choice Questions
7	Writing Chemical Equations	Manaple energe Questions
8	The Mole (Stoichiometry in mass)	Paper 4 (Chemistry)
9	Chemical Calculations (Stoichiometry in mass)	Section A (14 mark) Structured Questions
10	Acids and Bases	Section B (16 marks)
11	Salts	Free Response Questions
12	Metals	Choose 2 out of 3 questions
13	The Periodic Table	
14	The Atmosphere and Environment	Bonon 5 (Biology) (20 months)
15	An Introduction to Organic Chemistry	Paper 5 (Biology) (20 marks) Multiple Choice Questions
16	Alkanes and Alkenes	·
Biolog	У	Paper 6 (Biology) Section A (14 marks)
1	Cells	Structured Questions
2	Movement of Substances	
3	Nutrients	Section B (16 marks) Free Response Questions
4	Enzymes	Choose 2 out of 3 questions
5	Nutrition in Humans	
6	Nutrition in Plants	Total: 100 marks
7	Transport in Humans	
8	Transport in Plants	
9	Respiration]
10	Reproduction in Plants]
11	Reproduction in Humans	

Sec 4 Normal (Academic) Syllabus Coverage for Assessment in Mid-Year Examination 2016

MATHEMATICS (NA)

Duration of Examination: Paper 1: 2 hours Paper 2: (2 hours)

Syllabus has completed. All Sec 1 to Final Year topics are tested.

S/N	Topics	Format / Weightings
Unit	Numbers and Algebra	
1		
	1.1 Numbers and Operation	
	1.2 Ratio, Rate and Proportion	
	1.3 Percentage	
	1.4 Speed	Paper 1: 80 marks (50%)
	1.5 Algebraic Representation and Formulae	2hr
	1.6 Algebraic Manipulation	Calculators Allowed
	1.7 Functions and Graphs	Paper 2: 60 marks (50%)
	1.8 Solutions of Equations and Inequalities	2hr
	1.9 Applications of Mathematics in Practical Situations	Calculators Allowed
Unit	Geometry and Measurement	Section A: Answer all
2		questions
	2.1 Angles, Triangles and Polygons	Section B: One question
	2.2 Congruence and Similarity	from the "Geometry &
	2.3 Properties of Circles	Measurement" strand and
	2.4 Pythagoras' Theorem and Trigonometry	one from the "Statistics and
	2.5 Mensuration	Probability" strand. Choose
	2.6 Coordinate Geometry	one out of 2 questions.
Unit	Statistics and Probability	
3		
	3.1 Data Handling	
	3.2 Data Analysis	
	3.3 Probability	

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MATHEMATICS (O-level)

Duration of Examination: 2 hour (Paper 1) & 2 Hour and 30 minutes (Paper 2)

Syllabus has completed. All Sec 1 to Final Year topics are tested.

S/N	Topics	Format / Weightings
Unit	Numbers and Algebra	
1	1.1 Numbers and Operation	
	1.2 Ratio, Rate and Proportion	
	1.3 Percentage	
	1.4 Speed	
	1.5 Algebraic Representation and Formulae	
	1.6 Algebraic Manipulation	
	1.7 Functions and Graphs	
	1.8 Solutions of Equations and Inequalities	Denor 4: 90 marks (50%)
	1.9 Applications of Mathematics in Practical Situations	Paper 1: 80 marks (50%) 2hr
	1.10 Set Language and Notation	Calculators Allowed
	1.11 Matrices	Calculators Allowed
Unit	Geometry and Measurement	Paper 2: 100 marks (50%)
2	2.1 Angles, Triangles and Polygons	2hr 30min
	2.2 Congruence and Similarity	Calculators Allowed
	2.3 Properties of Circles	
	2.4 Pythagoras' Theorem and Trigonometry	
	2.5 Mensuration	
	2.6 Coordinate Geometry	
	2.7 Vectors in Two Dimensions	
Unit	Statistics and Probability	
3	3.1 Data Handling	
	3.2 Data Analysis	
	3.3 Probability	

Sec 4 Normal (Academic) Syllabus Coverage for Assessment in Mid-Year Examination 2016

ADDITIONAL MATHEMATICS

Duration of Examination: 1 hour 45 min (Paper 1) & 1 hour and 45 minutes (Paper 2)

S/N	Topics	Format / Weightings
1	Chapter 1: Simultaneous Equations, Polynomials &	
	Partial Fractions (excluding Partial Fractions)	
2	Chapter 2: Quadratic Equations, Inequalities & Modulus	
	Functions (excluding Modulus Functions)	
3	Chapter 3: Binomial Theorem	
4	Chapter 4: Indices, Surds and Logarithms (excluding	Banar 1: 70 marks (50%)
	Logarithms)	Paper 1: 70 marks (50%) 1hr 45min
5	Chapter 5: Coordinate Geometry	Calculators Allowed
6	Chapter 6: Further Coordinate Geometry	Calculators Allowed
7	Chapter 8: Trigonometric Functions and Equations	Paper 2 : 70 marks (50%)
	(excluding graphs of modulus trigonometric functions)	1hr 45min
8	Chapter 9: Trigonometric Identities and Formulae	Calculators Allowed
9	Chapter 11: Differentiation and its Application	
10	Chapter 12: Further Application of Differentiation	
11	Chapter 14: Integration – Basic integration, integration of	
	a function involving a linear factor)	
12	Chapter 15: Applications of Integration	

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COMBINED HUMANITIES (Social Studies/ Geography)

Duration of Examination: <u>1 hour 45 minutes for Social Studies and 1 hour 40 minutes for Geography</u>

S/N	Topics	Format/ Weightings
Socia	l Studies	Section A
1	 All chapters in Book 3 Chapter 2: Governance in Singapore Chapter 3: Managing Healthcare: A Case Study of Singapore Chapter 4: Conflict in Multi-Ethnic Societies: Case Studies of Sri Lanka And Northern Ireland Chapter 5: Bonding Singapore Chapter 6: Diplomacy and Deterrence 	Source-Based Case Study (35 marks) Section B Structured Essay Question (15 marks) Total mark is 50.
	One Chapter in Book 4 Chapter 2: Globalisation	
Geog	raphy	Section A
1	Physical Geography Plate Tectonic (Gateways 1 & 2) Weather & Climate (Gateway 1 & 2) Human Geography Tourism (Gateways 1 – 3)	Field Study– Geographical Skills and Investigations (13 marks) Section B Structured Questions (12 marks)
2	Chapter 3: Geographical Skills and Investigations Gateway 2: Geographical data and techniques (Graphs) Gateway 3: Geographical investigations	Section C Structured Essay Questions (25 marks)

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COMBINED HUMANITIES (Social Studies/ History)

Duration of Examination: <u>1 hour 45 minutes for Social Studies and 1 hour 40 minutes for History</u>

S/N	Topics	Format/ Weightings
	I Studies	Section A
1	 All chapters in Book 3 Chapter 2: Governance in Singapore Chapter 3: Managing Healthcare: A Case Study of Singapore Chapter 4: Conflict in Multi-Ethnic Societies: Case Studies of Sri Lanka And Northern Ireland Chapter 5: Bonding Singapore Chapter 6: Diplomacy and Deterrence One Chapter in Book 4 Chapter 2: Globalisation 	Source-Based Case Study (35 marks) Section B Structured Essay Question (15 marks) Total mark is 50.
Histo	ry	Section A Source-Based Case Study
1	Chapters 6 and 7 of Sec 3 textbook. Chapters 1 and 2 of Sec 4 textbook. • Causes of WWII in Asia Pacific, Defeat of Japan in WWII, Reasons for Cold War and Korean War	(30 marks) Section B Structured Essay Question (20 marks) Total mark is 50.

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PRINCIPLES OF ACCOUNTS

Duration of Examination: 3 hours (paper 1: 1 hour; paper 2; 2 hour)

S/N	Topics	Format / Weightings
1	Chapter 1 Introduction to Accounting Chapter 2 The Accounting Information System Chapter 3 Elements of the Financial Statements and the Accounting Equation Chapter 4 The concept of Double Entry Chapter 5 Special Journals Chapter 6 Cash Book and Petty Cash Book Chapter 7 Bank Reconciliation Chapter 8 Trial Balance (with adjustments) Chapter 9 Income Statement (with adjustments) Chapter 10 Balance Sheet (with adjustments) Chapter 11 Prepayments and Accruals Chapter 12 Inventory Chapter 13 Non-current Assets (sale of non- current asset not tested) Chapter 14 Trade Receivables Chapter 16 Control Accounts Chapter 17 Correction of Errors Chapter 19 Business Entities: Final accounts for Sole Proprietorship	 Paper 1 40 marks Answer all questions Paper 2 60 marks Answer all questions

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DESIGN & TECNOLOGY

Duration of Examination: 1 hr 30 minutes

S/N	Topics	Format / Weightings
1	Theory Paper:	70 marks / 40%
	Part A - Design method	Part A: 28 marks
	Project Management	Part B: 42 marks
	Research	
	Definition of Needs	
	Generating and Develop Ideas	
	Realisation	
	Evaluation	
	Design Communication	
	Ergonomics and Anthropometry	
	Design Journal	
	Material & Practical Process	
	Part B- Structures	
	Mechanism	
	Electronic	
2	Coursework (Journal)	60 marks (60%)
		Problem based coursework
		already completed.

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FOOD & NUTRITION

Duration of Examination: 1 hour 30 minutes

S/N	Topics	Format / Weightings
1	Theory Paper:	80 marks (50%)
	Chapter 1: Energy from Food	Section A: 20 marks
	Chapter 2: Guidelines for Meal Planning	Short answers structured Qs
	Chapter 3: Different Types of Nutritional Needs	Section B : 28 marks
	Chapter 4: Carbohydrates	Data based structured Qs
	Chapter 5: Cereals	Section C :32 marks
	Chapter 6: Fats	Essay questions
	Chapter 7: Proteins	
	Chapter 8: Meat & Alternatives	
	Chapter 10: Vitamins	
	Chapter 11: Minerals	
	Chapter 12: Water & Dietary Fibre	
	Chapter 13: Food Commodities-Fruits and	
	Vegetables	
	Chapter 14: Heat Transfer and Methods of Cooking	
	Chapter 15: The Science Behind Food Preparation	
	Chapter 17: Keeping Food Safe	
	Chapter 18: Convenience Food	
2	Coursework	22 marks (50%)
		Problem based coursework.

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ART

Duration of Examination: NA

S/N	Topics	Format / Weightings
	Drawing and Painting:	100 marks (100%)
	Assessment will be based on Preparatory Studies (To	
	be carried out and recorded over 3 weeks) and Final	
	Artwork (To be completed during Art examination for 3	
	hour).	
	Assessment Criteria:	
	Investigation and Interpretation of Theme (15%)	
	Exploration and Development of Theme (15%)	
	Aesthetic Qualities (25%)	
	Control of Materials and Technical Processes (25%)	
	Personal Response (20%)	