

# **MASTERMIND**

# **ENGLISH MEDIUM SCHOOL**

# **SYLLABUS FOR FINAL EXAM. 2021–2022**

**CLASS-IX (CAMBRIDGE)** 

	SUB	JECT: ENGLISH LANGUAGE				
	U	Inseen :				
		Students will be assessed in the following skills:-				
		(a) Ability to write an essay / story / directed writing piece using accurate spelling, punctuation and appropriate grammar.				
		(b) Ability to read and understand passages (unseen) and answer questions on these.				
		(c) Ability to apply the rules of grammar.				
	SUB	JECT : MATHEMATICS - D				
	Bool	Books: (i) Extended Mathematics For IGCSE( $3^{rd}$ Edition) by $-D$ Rayner (ii) New Syllabus Mathematics $-3$ ( $7^{th}$ Edition) by $-Lee$ Peng Yee (iii) Past Years Question Papers.				
	0	Matrix Transformation Mensuration  Graph (Inequality Graph)  Function  Arithmetic  Algebra				
	SUBJECT : ADDITIONAL MATHS					
_	Books: (i) "New Syllabus Additional Mathematics (Seventh Edition)  —Prof Lee Peng Yee  (ii) Past papers — Cambridge O Level Question Papers					
		Techniques of differentiation				
		Rate of change and approximations				
		Tangent – Normal				
		Stationary points: Maximum and minimum points				
		Distinguishing maximum and minimum points using $\frac{d^2y}{dx^2}$				
		Mensuration				
		Integration				
		Area under curve				
		Proving of identities				

#### SUBJECT : BANGLA

#### Unseen

# **Paper 1: Composition**

- > Section A: Letter, Report, Dialogue or Speech (চিঠি, প্রতিবেদন, কথোপকথন অথবা ভাষণ)
- > Section B: Essay (রচনী)

# Paper 2: Language Usage and Comprehension

- > Section A: Language usage questions.
- □ Separation / Combinations of Words (সন্ধি / সন্ধি বিচ্ছেদ / )
- 🔲 Idioms, Proverbs and Words in Pairs ( বাগধারা , প্রবচন এবং জোড়া শব্দ)
- □ Sentence Transformation (বাক্য রূপান্তর)
- □ Cloze Passage (উপযুক্ত শব্দ দিয়ে শূন্যস্থান পূরণ)
- > Section B: Multiple-choice comprehension questions (বোধজ্ঞানের বহু বিকল্প প্রশোন্তর)
- Section C: 1. Open-ended comprehension questions ( বোধজ্ঞানের মুক্ত
  প্রশোন্তর)
  - 2. Vocabulary ( শব্দার্থ )

#### SUBJECT : PHYSICS

- 1. Unit 14: Reflection and refraction of light
- 2. Unit -15: Converging Lens
- 3. Unit 16: Sound
- 4. Unit 17 : Static Electricity
- 5. Unit 18 : Current Electricity
- 6. Unit 19 : D.C. Circuits
- 7. Unit 20 : Practical Electric Circuitry

#### **PRACTICAL**

- \* All experiments based on all topics covered in Class VIII and IX
- Half-Yearly Syllabus Also Included
- Both Half-Yearly & Final Syllabus of Class-VIII Also Included

#### SUBJECT : CHEMISTRY

#### • CLASS IX (CAMBRIDGE) CHEMISTRY SYLLABUS

# **BOOK: 1. Chemistry Matters**

# **THEORY**

- 1. Chapter 13: Oxidation & Reduction
- 2. Chapter 14: Metals
- 3. Chapter 15: Electrolysis
- 4. Chapter 18: Speed of Reaction
- 5. Chapter 20: The Atmosphere and Environment

# **PRACTICAL**

- 1. Experimental questions based on Theoretical Syllabus
- 2. Titrations and moles calculations
- 3. Test for Cations, Anions, Gases
- 4. Flame Test

#### **REVISION**

- 1. Chapter 3: Separation and Purification
- 2. Chapter 4: Elements, Compounds and Mixtures
- 3. Chapter 5: Atomic Structure
- 4. Chapter 6: Ionic Bonding
- 5. Chapter 7: Covalent and Metallic Bonding

- 6. Chapter 9: The Mole
- 7. Chapter 10: Chemical Equations
- 8. Chapter 11: Acids and Bases
- 9. Chapter 12: Salts
- 10. Chapter 17: Energy Changes

#### SUBJECT : BIOLOGY

# **Book:** Cambridge Biology

# Book: Biology (A Course for 'o' level) – Lam Peng Kwan & Eric Y K Lam THEORY

Chapter-20: Reproduction in Plants

Chapter-21: Sexual Reproduction in Animals

Chapter-22: Heredity

Chapter -2: Classification

#### **PRACTICAL**

#### **BOOK: MASTERMIND LAB. MANUAL**

Experiments on topics covered in lab classes.

#### **REVISION**

Chapter – 8: Transport in Mammals

Chapter – 9: Transport of Materials in Flowering Plants

Chapter – 11: Excretion

Chapter – 12: Homeostasis

Chapter – 13: Co-ordination and Response: I The Nervous System in Mammals

Chapter – 14: Co-ordination and Response: II Animal Receptor Organs

Chapter – 15: Co-ordination and Response: III Hormones and Endocrine Glands

Chapter: Co-ordination Response in Plants

#### SUBJECT : ACCOUNTING

- 1.bank reconciliation
- 2.manufacturing
- 3.single entry
- 4.clubs and non profit organization
- 5. Partnership
- Text Book : Business Accounting 1
- Question Paper (GCSE and IGCSE)

# SUBJECT : ECONOMICS

Book: IGCSE and O Level Economics by Susan Grant

Text Book: Cambridge IGCSE and O Level Economics by Susan Grant (Course book) Second Edition.

Chapter (24 to 35)

# **SUBJECT : BUSINESS STUDIES**

Section – 03 Marketing

Section – 04 Operations Management

#### SUBJECT : COMMERCE

Unit - 5	Wholesale Trade
Unit - 8	Advertising
Unit – 9	Communications
Unit - 10	Transport
Unit – 13	Banking

# **SUBJECT**: COMPUTER SCIENCE (2210)

# **Subject: Cambridge O Level Computer Science (2210)**

**Book:**Cambridge IGCSE<sup>™</sup> and O Level Computer Science(Second Edition), Published 2021, David Watson and Helen Williams,ISBN-9781398318281

# **Theoretical and Practical**

Note: All topics are not included. Some topics may not be present in the books. Follow the class notes in such case.

Reference	Chapters	Topics
Book	Chapter 3	Hardware
Book	Chapter 7	Algorithm design and problem solving. (Flow chart, Pseudocode, Selection, Iteration, Array (1D & 2D), Variable concept and algorithm design.)
Book	Chapter 10	Boolean Logic