



MASTERMIND

ENGLISH MEDIUM SCHOOL

SYLLABUS FOR FINAL EXAM. 2021–2022

CLASS– IX (EDEXCEL)

SUBJECT : ENGLISH LANGUAGE

❑ Section – A :

- ◆ Assesses students' understanding of, and response to, stimulus material.
Marks primarily for content and understanding.

❑ Section – B :

- ◆ Assesses students' ability to write according to guidelines, in response to stimulus material. May be asked to **Inform or instruct, advise or persuade, or express attitudes**. Will be asked to use a recognized form of writing (e.g. letter or school magazine article or speech)

❑ Section – C :

- ◆ One piece of extended writing
May be narrative, descriptive, personal, argumentative or discursive.

SUBJECT : BANGLA

Unseen

• Section A: Reading

- ❑ Multiple-choice Words (বহু বিকল্প শব্দ নির্বাচন)
- ❑ Comprehension related Q/A (নিবন্ধ হতে সঠিক প্রশ্নোত্তর নির্বাচন)
- ❑ Short-response questions (সংক্ষিপ্ত প্রশ্নোত্তর)
- ❑ Open-response questions (বোধজ্ঞানের মুক্ত প্রশ্নোত্তর)

• Section B: Writing

- ❑ Essay (রচনা)
- ❑ E-mail (ই-মেইল)
- ❑ Blog (ব্লগ)
- ❑ Article (নিবন্ধ)

• Section C: Translation (অনুবাদ)

- English to Bangla (ইংরেজি থেকে বাংলা)

SUBJECT : MATHEMATICS SYLLABUS – B

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|-------------------|---------------------------------------|
| 1. Matrix | 5. Vector |
| 2. Transformation | 6. Graph (Speed-Time, Distance- Time) |
| 3. Mensuration | 7. Arithmetic |
| 4. Function | 8. Algebra |

SUBJECT : FURTHER PURE MATHEMATICS

BOOKS: (i) **Pure Mathematics** by – *Lee Peng Yee*
(ii) **Past papers** – *Edexcel O Level / IGCSE Question Papers*

- **Techniques of Differentiation**
- **Applications of Differentiation**
 - (i) Stationary points: Maximum and Minimum points
 - (ii) Distinguishing Maximum and Minimum points using $\frac{d^2y}{dx^2}$
 - (iii) Curve Sketching: Cubic Curves
 - (iv) Mensuration (Problems on Maximum and Minimum values)
 - (v) Rate of Change
- **Further Applications of Differentiation**
 - (i) Approximation
 - (ii) Equation of Tangent and Normal to a Curve
- **Integration**
- **Applications of Integration**
 - (i) Area under the Curve
 - (ii) Volume of Revolution

SUBJECT : PHYSICS

BOOK: **Edexcel International GCSE (9-1) Student Book**

- Unit : 1 Forces & Motion
- Unit : 2 Electricity
- Unit : 3 Waves
- Unit : 4 Energy Resources & Energy Transfer
- Unit : 5 Solids, Liquids & Gases
- Unit : 6 Magnetism & Electromagnetism

SUBJECT : CHEMISTRY**BOOK: Edexcel International GCSE (9-1) Student Book**

Chapter	10	Electrolysis
Chapter	15	Extraction and uses of metals
Chapter	18	Chemical Tests
Chapter	19	Energetics
Chapter	20	Rates of Reaction

REVISIONS :

Chapter	3	Atomic Structure
Chapter	4	Periodic Table
Chapter	5	Chemical Formulae, Equations & Calculation Part 1
Chapter	6	Chemical Formulae, Equations & Calculation Part 2
Chapter	11	Alkali Metals
Chapter	12	The Halogens
Chapter	14	Reactivity Series

SUBJECT : BIOLOGY

- ❑ Chapter – 9 : Reproduction in Humans
- Chapter – 13 Reproduction in Plants
- Chapter – 14 : Ecosystems
- Chapter – 16 : Chromosomes Genes and DNA
- Chapter – 17 : Cell Division
- Chapter – 18 : Genes and Inheritance

❑ **REVISION**

- Chapter – 2 : The Variety of Living Organism
- Chapter – 8 : Homeostasis and Excretion
- Chapter – 10 : Plants and Food
- Chapter – 11: Transport in Plants

SUBJECT : ACCOUNTING

1. Bank reconciliation statements
2. Manufacturing accounts
3. Single entry and incomplete records
4. Errors not affecting the balancing of the trial balance
5. Suspense accounts and errors

- **Text Book : Business Accounting 1**
- **Question Paper (GCSE and IGCSE)**

SUBJECT : ECONOMICS**BOOK:** Edexcel IGCSE Economics -by Rob Jones

Text Book: Edexcel International GCSE (9-1) ECONOMICS Student Book -by Rob Jones

Section – C Government and the Economy Chapter 25 –34

SUBJECT : BUSINESS STUDIES

Business Operations

Marketing

SUBJECT : COMMERCE

Chapter: 12 Developments in retailing

Chapter: 13 Wholesaling

Chapter: 14 E-commerce

Chapter: 15 International trade

Chapter: 16 Trading blocs and the difficulties facing exporters

Chapter: 17 Multinationals

Chapter: 18 The purposes and principles of insurance

Chapter: 19 Insurance business risks

Chapter: 20 Effecting cover, renewals and claims in insurance

Chapter: 21 Consumer protection legislation

Chapter: 22 Trade protection

Chapter: 23 Exchange rates and bad debts

Chapter: 24 The role and functions of financial institutions

Chapter: 25 Sources of finance

SUBJECT : IGCSE (9-1) Computer Science (4CP0)*Final Examination 2021-2022 Syllabus***Specification:**

Pearson Edexcel International GCSE in Computer Science (4CP0) Specification

Book:

Author	Book Name	Publisher
David Waller, Chris Charles, Pete Dring, Alex Hadwen-Bennett, Jason Welch, Shaun Whorton	Edexcel GCSE (9-1) Computer Science Student Book	Publisher: Pearson Education Published: 2020 ISBN:9781292310220
Dave Duddell	Cambridge IGCSE™ and O Level Computer Science Programming Book for Java	Publisher: Cambridge IGCSE and O Level Computer Science Programming Book for Java Published: 2021 ISBN:9781108910071

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

Syllabus Overview:

Topic Name	Syllabus Section	Subsection Details
Topic 1 Problem Solving	1.1 Algorithms	1.1.3, 1.1.4, 1.1.5, 1.1.6, 1.1.7, 1.1.8, 1.1.9
	1.2 Decomposition and abstraction	1.2.1, 1.2.2, 1.2.3, 1.2.4
Topic 2	Programming	2.1, 2.2, 2.3, 2.4, 2.5, 2.6 (Algorithms and Pseudo code Variable Declaration, Selection, Iteration, Arrays, Sub Programs)
Topic 3	Data	3.4.2 Understand how encryption algorithms work (Pigpen cipher, Caesar cipher, Vigenère cipher, Rail Fence cipher)
Topic 4 Computers	4.3 Logic	Logic Gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) with truth table.