

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

- | | |
|-------------------|---------------------------------------|
| 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

Chapters	6	Chemical Formulae, Equations & Calculation Part 2 + Part 1
Chapters	10	Electrolysis
Chapters	13	Gases in the Atmosphere
Chapters	14	Reactivity Series
Chapters	15	Extraction and uses of metals
Chapters	19	Energetics
Chapters	20	Rates of Reaction
Chapters	21	Reversible Reactions & Equilibria

REVISIONS :

- 1 Ionic Bonding
- 2 Covalent Bonding
- 3 Metallic Bonding
- 4 Alkali Metals
- 5 The Halogens
- 6 Chemical Tests

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

Unit – 7 International Trade

Unit – 8 Advertising

Unit – 9 Communications

Unit – 10 Transport

Unit – 13 Banking

SUBJECT : IGCSE (9-1) Computer Science (4CP0)**Specification:**

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

Book:

Author	Book Name	Publisher
David Waller, Chris Charles, Pete Dring, Alex	Edexcel GCSE (9-1) Computer Science Student Book	Publisher: Pearson Education Published: 2020 ISBN:9781292310220

Hadwen-Bennett, Jason Welch, Shaun Whorton		
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	1.1.1, 1.1.2, 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,.12.2,1.2.3,1.2.3,1.2.4
Topic 2	Programming Concepts	Algorithms and Pseudo code Variable Declaration, Selection, Iteration, Arrays, Programming technics