

# FINAL EXAM SYLLABI GRADE 10

## ACADEMIC YEAR 2021-2022

### ENGLISH

1. Comprehension
2. Semi-formal Writing
3. Idioms and Phrases
4. Collocations
5. Appropriate words

### MATH

Maths IGCSE book 1 complete, All chapters

Refer to your class work copy that was done throughout the year, including graph book

Note: Chapter of sequence and Patterns from book 2 NOT Included

### BIOLOGY

Topics included:

- 1) Enzymes
- 2) Food components and Food test
- 3) Photosynthesis

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### PHYSICS

Following units are completely included for Final Exam

UNIT1: FORCES AND MOTION

UNIT4: WORK AND ENERGY

UNIT:5: DENSITY AND PRESSURE

Note: Unit 2, Electricity partially done this year is NOT included for final exam

### ACCOUNTING

#### Unit 2: Introduction to bookkeeping

What students need to learn:

<b>1 - Business documentation</b>	<b>a) Explain the purpose of business documents.</b> <b>b) Prepare the following business documents:</b> <ul style="list-style-type: none"><li>• purchase order</li><li>• purchase invoice</li><li>• sales invoice</li><li>• credit note</li><li>• statement of account</li><li>• remittance advice</li><li>• petty cash voucher.</li></ul> <b>c) Cash receipt</b>
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<b>2 - Books of original entry</b>	<p>a) Explain the purpose of books of original entry.</p> <p>b) Prepare the following books of original entry:</p> <ul style="list-style-type: none"> <li>• purchases day book</li> <li>• sales day book</li> <li>• purchases return book</li> <li>• sales returns book</li> <li>• three-column cash book</li> <li>• petty cash book</li> <li>• the journal.</li> </ul>
<b>3 - Ledger accounting</b>	a) Record transactions in ledger accounts using double entry principles.
<b>4- Depreciation</b>	<p>a) Explain the causes of depreciation.</p> <p>b) Distinguish between straight line and reducing balance methods of depreciation.</p> <p>c) Calculate and record depreciation in the books of account.</p> <p>d) Calculate and record profit or loss of disposal of non-current assets.</p>

### Unit 3: Introduction to Control Process

What students need to learn:

<b>1 – Trial Balance</b>	a) Prepare a trial balance
<b>2 - Control accounts</b>	a) Prepare a trade receivables control account and a trade payables control account.

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<b>3 - Correction of errors</b>	<b>a) Identify and explain errors that do and do not affect the balancing of the trial balance</b> <b>b) Prepare journal entries to correct errors</b> <b>c) Prepare a Suspense account</b>
<b>4 - Bank reconciliation statements</b>	<b>a) Prepare a bank reconciliation statement.</b>

### Unit 4:

What students need to learn:

<b>1 - Capital expenditure and revenue expenditure</b>	<b>a) Explain the terms:</b> <ul style="list-style-type: none"><li>• capital expenditure</li><li>• revenue expenditure.</li></ul> <b>b) Explain the importance of the correct treatment of capital expenditure and revenue expenditure</b>
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## BUSINESS STUDIES

Chapters 1-20 from the Books are coming in the Final Exams

Paper will be based on 3 sections:

Section A (Mcqs)

Section B (Case Study)

Section C (objective questions)



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### COMPUTING

#### Topic 1: Algorithms

1.1.1 Understand what an algorithm is, what algorithms are used for and be able to interpret algorithms (flowcharts, pseudocode, written descriptions, program code).

1.1.2 Understand how to create an algorithm to solve a particular problem, making use of programming constructs (sequence, selection, iteration) and using appropriate conventions (flowchart, pseudocode, written description, draft program code).

1.1.3 Understand the purpose of a given algorithm and how an algorithm works.

1.1.6 Understand how to code an algorithm in a high-level language.

1.1.8 Understand how standard algorithms work (bubble sort).

#### Topic 2: Programming

2.1.1 Be able to write programs in a high-level programming language.

2.1.2 Understand the benefit of producing programs that are easy to read and be able to use techniques (comments, descriptive names (variables, indentation) to improve readability and to explain how the code works.

2.1.3 Be able to differentiate between types of error in programs (logic, syntax, runtime).

#### Topic 3: Data



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3.1 Understand that computers use binary to represent data (numbers, text, sound, 3.2 graphics) and program instructions and be able to determine the maximum number of states that can be represented by a binary pattern of a given length

3.2 Understand how computers represent and manipulate unsigned integers and two's complement signed integers

3.3 Be able to convert between denary and 8-bit binary numbers (0 to 255, -128 to +127)

The following programming statements are a part of the syllabus:

- print
- input statement int( )
- if and else
- elif
- for
- While
- random

How to display an image using Tkinter

How to write a function