

ACADEMIC SESSION 2021– 2022

GRADE: A Level CAIE

Pure Mathematics (P3)

Exams	Chapters:
FA – 1	<ol style="list-style-type: none"> 1. Algebra 2. Logarithmic and Exponential Functions 3. Trigonometry
FA – 2	<ol style="list-style-type: none"> 4. Differentiation 5. Integration 6. Numerical Solution of Equations
FA – 3	<ol style="list-style-type: none"> 7. Vectors 8. Differential Equation 9. Complex Numbers
Mock	All the chapters included in FA – 1, FA – 2 and FA – 3.

PHYSICS

Chapters	
TERM I	TERM II
CIRCULAR MOTION	ALTERENATE CURRENTS
GR. FIELD	QUANTUM PHYSICS
OSCILLATION	NUCLEAR PHYSICS
THERMAL PHYSICS	MEDICAL IMAGING
IDEAL GASES	ASTRONOMY & COSMOLOGY
UNIFORM ELECTRIC FIELDS	COMMUNICATION SYSTEMS
COULOMB'S LAW	PLANNING & ANALYSIS
CAPACITANCE	REVISION.
MAGNETIC FIELD AND ELCECTRO MAGNETISM	SOLVING PAST BOARD PAPERS, WORKSHEETS
MOTION OF CHARGED PARTICLES	
ELECTRO MAGNETIC INDUCTION	

CHEMISTRY

Term I

S.NO	NAME OF THE CHAPTER
1	LATTICE ENERGY
2	ELECTROCHEMISTRY
3	FURTHER ASPECTS OF EQUILIBRIA
4	REACTION KINETICS
5	ENTROPY AND GIBBS FREE ENERGY
7	TRANSITION ELEMENTS
8	PRACTICE OF BOARD PAPER

Term II

S.NO	NAME OF THE CHAPTER
1	BENZENE AND ITS COMPOUNDS
2	CARBOXYLIC ACIDS AND THEIR DERIVATIVES
3	ORGANIC NITROGEN COMPOUNDS
5	POLYMERISATION
6	ANALYTICAL CHEMISTRY
7	POLYMERISATION
8	PRACTICE OF BOARD PAPER

Biology

<u>SL NO.</u>	<u>CHAPTERS</u>
1.	Energy and respiration
2.	Photosynthesis and Crop plants
3.	Genetic Technology
4.	Inherited changes
5.	Paper 5
6.	Selection and evolution
7.	Homeostasis
8.	Coordination
9.	Biodiversity, classification and conservation

Statistics and Probability 2 (S2)

Exams	Chapters:
FA – 1	1. The Poisson distribution 2. Linear combination of random variables
FA – 2	3. Continuous random variables 4. Sampling and estimation
FA – 3	5. Hypothesis
Mock	All the chapters included in FA – 1, FA – 2 and FA – 3.

ACCOUNTING

Exams	Chapters:
UNIT - 1	6. Financial Accounting <ul style="list-style-type: none">• Preparation for Financial Accounting• Manufacturing Business 7. Cost and management accounting <ul style="list-style-type: none">• Activity based costing• Budgeting and budgetary control
HALF-YEARLY	8. Business purchase and merger 9. Consignment and Joint Venture 10. Computerised Accounting System 11. Financial Accounting <ul style="list-style-type: none">• Not for profit organisation
UNIT - 2	12. Cost and management accounting <ul style="list-style-type: none">• Standard Costing• Investment appraisal

	<p>13. Financial Accounting</p> <ul style="list-style-type: none"> • Limited Liability Companies • International Accounting Standards
FINAL	<p>14. Financial Accounting</p> <ul style="list-style-type: none"> • Auditing and Stewardship of limited companies <p>15. Analysis and communication of accounting information</p> <p>All the chapters included in UNIT - 1, HALF-YEARLY and UNIT - 2.</p>

Business Studies

Exams	Chapters:
FA – 1	<ol style="list-style-type: none"> 1. Business structure 2. Size of business 3. External influences on business activity 4. External economic influences on business behaviour 5. Further human resource management 6. Organisation Structure 7. Business Communication
FA – 2	<ol style="list-style-type: none"> 8. Marketing planning 9. Globalisation and international marketing 10. Capacity utilization 11. Lean production and quality management 12. Project Management 13. Costs 14. Budgets
FA – 3	<ol style="list-style-type: none"> 14. Budgets 15. Contents of published accounts 16. Analysis of published accounts 17. Investment appraisal 18. What is Strategic Management 19. Strategic analysis 20. Strategic choice 21. Strategic implementation
Mock	All the chapters included in

FA – 1, FA – 2 and FA – 3.

ECONOMICS

TERM – I		TERM - II	
1.	Basic economic ideas and resource allocation	4.	The macroeconomy
2.	The price system and the microeconomy	5.	Government macro intervention
3.	Government microeconomic intervention		

IT

Exams	Chapters:
FA – 1	1. Emerging technologies 2. The role and impact of IT in society 3. Networks
FA – 2	4. Project management 5. System life cycle 6. Graphics creation
FA – 3	7. Animation 8. Mail merge 9. Programming for the web
Mock	All the chapters included in FA – 1, FA – 2 and FA – 3.

ART & DESIGN

Aims and Objectives

To encourage creative expression and interest in the World of Art.

To develop the power of aesthetic appreciation and artistic values through the study of Art.

In response to studies within this area, candidates are expected to demonstrate skills in either a representational or a descriptive manner, or they may be more imaginative and interpretative. The work should evolve through investigation and development by the candidate. Responses may be based on a directly observed starting point or subject, or they may be the candidate's personal response to a theme.

Candidates should learn to use a sketchbook to make visual and/or other appropriate research and develop their ideas. They should also show knowledge of art and design from other cultures or history and relate it to their own studies.

Painting and drawing: Candidates should be encouraged to work from direct observation and to explore the use of tone, colour and composition, materials and context. This can be shown through the use of processes and the use of media such as charcoal, pencil, pastels, acrylic, water colour, oil and inks.

Component 3 is the A Level component. This is an internally set assignment that is marked by Cambridge International. There is no question paper for this component.

There are two parts to this component:

- practical work **and**
- written analysis of between 1000 and 1500 words.

The Personal Investigation should be an in-depth study that demonstrates the candidate's ability to carry out independent research from a starting point of their choice through to a fully realised and coherent conclusion.

Candidates identify a theme informed by an aspect of art and design, photography or craft for the investigation then, in consultation with their teacher, set themselves a specific brief which clarifies the content, direction and research material to be explored.

During their investigation, candidates produce practical work supported by written analysis containing detailed research. First-hand studies from primary sources such as visits to local galleries, studios or buildings, or contact with local artists, designers or craftspeople must form at least part of the research.

The Personal Investigation may be presented in a number of ways depending on the subject including, for example:

- an illustrated study that integrates the practical work with the written analysis
- a sculpture that is photographed and presented together with the related written analysis
- a focused investigation of cultural significance, such as comparing the work of two artists or techniques where the practical work is influenced by the style of one or both of the artists.

Candidates should ensure that the two elements are presented in such a way that they form a cohesive and integrated submission. The written analysis must be between 1000 and 1500 words and must also:

- use specialist vocabulary relevant to the investigation
- be written in continuous prose (but can be integrated with the practical work)
- ensure sources are identified and attributed in a bibliography
- be legible, with correct use of grammar and spelling
- be presented in a coherent manner and in a format that is relevant to the theme
- include relevant examples of what is being discussed.

In their analysis, candidates are advised to avoid using broad histories taken from secondary sources, whole biographies and long transcriptions of interviews.

The Personal Investigation must be submitted on A2. Candidates may use

FA 1

Personal Investigation Set 1:

01. Portfolio (It can be up to five sheets of A2. Candidates may use both sides of the paper)
02. Final Outcome

FA 2

Personal Investigation Set 2:

01. Portfolio (It can be up to five sheets of A2. Candidates may use both sides of the paper)
02. Final Outcome

FA 3

Personal Investigation Set 3:

01. Portfolio (It can be up to five sheets of A2. Candidates may use both sides of the paper)
02. Final Outcome

Activities (Continuous Evaluation)

Candidates will be required to submit assignments containing the practical works related to syllabus throughout the year.

Syllabus is planned according to the number of working days in the Academic Calendar 2021 - 22. Syllabus is subject to change due to unforeseen circumstances.

Physical education

➤ Term 1:

Section -A

- 1 Energy concepts
- 2 ATP
- 3 ATP re-syntheses
- 4 Energy continuums
- 5 The recovery process
- 6 Principles of training
- 7 Components of fitness
- 8 Ergogenic aids

Section -B

1 Individual aspects of sport performance

2 Group dynamics of sport performance

Practical: Activity -1

a) **Basketball**/Football/ **Badminton**/Cricket/ Athletics/ Swimming

➤ **Term-2**

Section -B

3 Mental preparations for sport performance

4 Competition effects on sport performance

5 Consequences of sport performance

Section-C

1 As a social force

2 Ancient Olympic Games

3 Role of the IOC

4 Politics

5 Comparison of methods of nurturing talent in the pursuit of global excellence

6 Economics and commercialism

8 Dysfunctional aspects

9 Discrimination

10 Spectacular aspects

11 The Future

Practical: Activity – 1& 2

a) **Basketball**/Football/ **Badminton**/Cricket/ Athletics/ Swimming