Gems Akademia
Global School
Thakurpukur, Kolkata

ACADEMIC SESSION 2021– 2022

GRADE: AS Level CAIE

AS Level 8021 English General Paper Syllabus -2021-22

Paper 1- Essay

Coursebook- Cambridge International AS Level English General Paper by Jill Pavich

Term 1- June/July-September

Chapter 1.1 – Syllabus Outline

1. Topic and Key Skills
2. Syllabus Aims and Objectives
3. Course Content- Writing Essays- Demonstrating critical thought- Choosing topic areas (A. Economic, historical, moral, political, social; B. Science with its history, philosophy, ethics, general principles and application, Environmental issues; Technology; Mathematics; C. Literature, Language, the Arts, Crafts, the Media)
4. Criteria for assessing essays

Chapter 1.2- Core Course Knowledge

5. Key Pointers defining 'Core Knowledge' of AS EGP course
6. Considering audience, register and purpose
7. Effective use of English language
8. Understanding the task- expository, argumentative, discursive writing skills and importance of Tone
9. Analysing Command Words and Phrases, Qualifiers
10. Choosing one's approach to the essay task – traditional (argumentative) versus discursive (investigative)
11. Key elements of an essay – Shape, Thesis, Evidence, Reasoned Conclusion

12. Benefits of Critical Reading- Answering one out of the 10 given essay questions (600-700 words)

Chapter 2.2- Planning and Organising Responses

13. Writing to a time limit
14. Deconstructing essay questions- Scope, Nouns, Limiting and Broad Terms, Command Words and Phrases
15. Vocabulary for discussing global issues
16. Generating ideas for the essay- Lenses, Hand Approach, General Idea to Specific Examples
17. Stakeholders, Perspective and Context
18. How can brainstorming help?
19. Applying and Analysis of deconstruction of questions
20. Practising what you have learnt- Exam Style Questions (1-5)

Chapter 2.3- Skills Review and Practice

Critical Reading- Texts from 4 perspectives, Article from The Strait Times, Texts 1-5 on Gender Equality in STEM fields

21. Understanding and applying information
22. Essay Practice- Activity 6&7

Term 2 – October- January/February

Chapter 3.1- Argumentative Writing

23. Concept of an argument (Logical Reasoning, Main claim)
24. Horizontal spectrum of an arguable point- Discursive, Argumentative, Persuasive
25. Opposing viewpoints, linking evidence to claims
26. Evidence- Reasons-Commentary
27. Argumentative Appeals to Ethos, Logos, Pathos, Kairos
28. Recognising weaknesses in arguments – Logical Fallacies (14 listed varieties)
29. Taking a position- argumentative writing versus writing to explain (Tone, Thesis development, Counterargument strategies)
30. How to write a Counterargument?
31. Analysing sources using the RAVEN technique
32. Developing an effective line of reasoning
33. Drawing conclusions
34. Building credibility
35. Practising what you have learnt- Any 1 among Questions (1-9)

Chapter 3.2- Exploring issues through discursive writing

36. Understanding the concept of discursive writing
37. Writing the discursive thesis statement
38. Maintaining an objective tone
39. Organisation of ideas- Handling perspectives, nuance, strategies for organisational structure
40. Interim conclusions
41. Comparing and contrasting sustained points and interim conclusions
42. Evidence-based conclusions- Evaluating the issue- offering solutions
43. Practising what you have learnt- Activity 10 and 11

Chapter 3.3- Skills Review and Practice

Theme- Government Priorities

Critical Reading Texts- Pages 165-182

44. Exam-style Questions- Practising what you have learnt (Page 182)
45. Activity 6- Differentiation

46. Board Practice Work: Writing Essays (600-700 words) in either argumentative/discursive style- CAIE Exam series October/November 2019 OR May/June 2020 Components 11, 12, 13 (Bank of 30 Questions)

ENGLISH GENERAL PAPER - 8021/22 [READING COMPREHENSION

TERM – I		TERM - II	
1.	Overview of EGP: Assessment objectives (RC) Analyse and evaluate information, Communicate using written English.	1.	**Analysis and Evaluation:** Understanding implications and examining other points of view.
2.	**Application of Information**: Understanding main idea and supporting details.	2.	**Application of Information:** Reframe text in one's own words
3.	Identify, Select and Interpret data	3.	**Synthesising:** Creating new ideas or understanding by combining knowledge from different sources.

4.	Understand detailed Information and identify key words	4.	**Writing:** Organise and communicate information clearly.
5.	Organisational patterns: Identify, select and interpret relevant information and examples.	5.	Extension Activity
6.	Identify and summarise major issues presented in a text.	6.	Specimen papers

Mathematics (P1)

Exams	Chapters:
FA – 1	1. Quadratics 2. Functions 3. Coordinate Geometry
FA – 2	4. Circular Measure 5. Trigonometry 6. Series
FA – 3	7. Differentiation 8. Integration
Mock	All the chapters included in FA – 1, FA – 2 and FA – 3.

PHYSICS

Term I	TERM II
PHYSICAL QUANTITIES & UNITS	WAVES
MEASUREMENT TECHNIQUES	SUPERPOSITION OF WAVES
KINEMATICS	STATIONARY WAVES
ACCELERATED MOTION	ATOMIC STRUCTURE
DYNAMICS	PRACTICAL SKILLS
FORCES- VECTORS AND MOMENTS	REVISION
WORK, ENERGY, POWER	SOLVING PAST BOARD PAPERS, WORKSHEETS ETC
MOMENTUM	
MATTER & MATERIAL	
CURRENT ELECTRICITY, POTENTIAL DIFFERENCE & RESISTANCE	
D.C CIRCUITS	
KIRCHHOFF'S LAWS	
RESISTANCE & RESISTIVITY	
PRACTICAL CIRCUITS	

CHEMISTRY

Term I

S.NO	NAME OF THE CHAPTER
1	MOLES AND EQUATIONS
2	ATOMIC TRUCTURE
3	ELECTRONS IN ATOMS
4	CHEMICAL BONDING
5	STATES OF MATTER
6	ENTHALPY CHANGES
7	REDOX REACTIONS
8	EQUILIBRIUM
9	RATES OF REACTIONS
10	PRACTICE OF BOARD PAPER

TERM II

S.NO	NAME OF THE CHAPTER
1	PERIODICITY
2	GROUP 2
3	GROUP 17
5	NITROGEN AND SULFUR
6	INTRODUCTION TO ORGANIC CHEMISTRY
7	HYDROCARBON
8	HALOGENOALKANES
9	ALCOHOLS,ESTERS AND CARBOXYLIC ACIDS
10	CARBONYL COMPOUNDS
11	PRACTICE OF BOARD PAPER

Biology

SL NO.	CHAPTERS
1.	Cell Structure
2.	Biological molecules
3.	Enzymes
4.	Cell membrane and transport
5.	The mitotic cell cycle
6.	Nucleic acid and Protein synthesis.
7.	Transport in mammals

8.	Transport in plants
9.	Gas exchange and Smoking
10.	Immunity
11.	Infectious diseases

MECHANICS

TERM 1 / HALF YEARLY

1. **STRAIGHT LINE MOTION – Displacement – time graphs, Velocity – time graphs.**
2. **CONSTANT ACCELERATION FORMULAE – Application in vertical motion.**
3. **VARIABLE ACCELERATION – Using differentiation to describe straight line motion, Using integration to describe straight line motion. Deriving the constant acceleration formulae.**
4. **FORCES AND RESULTANTS – Resultants, Components, Forces in equilibrium.**

TERM Ii / F A 2

5. **NEWTON'S LAWS - Reesolving components of the weight when on a slope, Multiple forces, Connected particles.**
6. **FRICTION – Rough horizontal surfaces, Rough inclined plane,.**
7. **WORK AND ENERGY – Work, Kinetic energy, Gravitational potential energy, Conservation of energy, The Work- Energy principle.**
8. **POWER – Power as rate of doing work, Acceleration and variable resistance.**
9. **Momentum - Momentum, Collisions.**

REVISION – Solutions of past papers.

Statistics and Probability 1 (S1)

Exams	Chapters:
FA – 1	1. Representation of Data 2. Permutation and Combination
FA – 2	3. Probability 4. Discrete Random Variable
FA – 3	5. Normal Distribution
Mock	All the chapters included in FA – 1, FA – 2 and FA – 3.

ACCOUNTING

Exams	Chapters:
FA – 1	1. Accounting cycle 2. Accounting from noncurrent assets 3. Reconciliation and verification
FA – 2	1. Accounting cycle 2. Accounting from noncurrent assets 3. Reconciliation and verification 4. Financial statements 5. Analysis and communication of accounting information
FA – 3	6. Cost and management
Mock	All the chapters included in FA – 1, FA – 2 and FA – 3.

Business Studies

Exams	Chapters:
FA – 1	1. Enterprise 2. Business Structure 3. Size of business 4. Business Objectives 5. Stakeholders in a business 6. Management and leadership
FA – 2	7. Motivation 8. Human resource management 9. What is Marketing 10. Market Research 11. The marketing mix- product and price 12. The marketing mix-promotion and place
FA – 3	13. The nature of Operations 14. Operations planning 15. Inventory management 16. Business Finance 17. Costs 18. Accounting fundamentals

	19. Forecasting and managing cash flows
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	9. Data information and data processing functions 10. Hardware and software 11. Monitoring and controlling
FA – 2	12. E-safety and health and safety 13. Digital divide 14. Using network 15. Expert systems
FA – 3	16. Spreadsheet 17. Database & file concepts 18. Sound video editing
Mock	All the chapters included in FA – 1, FA – 2 and FA – 3.

Physical education

- Term 1:

Section -A

1 The skeletal system

2 Joint types

3 Movement type

4 Muscles
5 Functions of muscles
6 Types of muscle contraction
7 Muscle fibre types
8 Movement analyses of sporting actions associated with each joint
9 Structure and function of the heart
10 Function of the vascular system
11 Structure and function of the respiratory system

Practical: Activity -1

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

- Term-2

Section B

Section B

1 Characteristics of a skilful performance
2 Definition and characteristics of motor and perceptual skills
3 Motor skill developments 4. Theories related to the learning of motor skills
5. Reinforcement
6. Theories related to motor and executive programmes
7. Theory of information processing in the performance of motor skills

Section C

1. The conceptual basis of physical education and sport
2. Achieving excellence in sport (relating to a country of your choice)
3. Mass participation in sport (relating to a country of your choice)
4. Factors affecting participation in sport
5. Sporting issues

Practical: Activity – 1& 2

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

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.

Subjects could include:

•• landscapes
•• figure studies
•• portraits
•• the natural or built environment
•• still-life
•• artefacts
•• abstract notions or feelings
•• personal experiences
•• visual ideas inspired by literary sources

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.

FA 1

Coursework 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

Coursework 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

Coursework 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.