



**ACADEMIA**  
Syllabus for Half Yearly Examination  
(Session: July 2016 to June 2017)  
Class: VIII

*last print 18 /07/2016*

**ENGLISH (Time: 3.00 hrs.)**

**Full marks: 40+60=100**

Book –4: Sadler Hayllar Powell (2) General Certificate English – Alan Etherton

(1) Secondary English – Unit 1 to 7 (P- 1 to 120) : will cover selected selection from the various passages/ selections of the book, which will include the following kinds of nouns and their application, the language of advertising, verbs and their usage, word forms, synonyms, antonyms, replacement words, propoganda, determining word meaning from word and vice versa, adjectives and their usage, formation and their opposite, defining satire, humour, use of adverbs and their function and use of appropriate preposition.

(2) General Certificate English: Selected text with a view to improve comprehensive skill development. How to make notes and extract information and how to summarise and implement one's comprehensive skills as well as follow directed writing procedure, expression and ensure adequate content point expression and accuracy are maintained (page 2-66).

Vocabulary development : Part 4, page 54-57, page 172-187.

Comprehensive and directed writing skill will be practiced (i.e. summary, formal and informal letter, diary, report etc. from selected text from the books and unseen text as well.

Creative writing : Narrative/Descriptive, Argumentative/Situational/composition including letter writing/story writing, dialogues writing will be undertaken.

N.B. : The Half-yearly Examination paper will comprise of 4 sections.

Section : A =20% will be selected on grammar, language, vocabulary.

Section : B = (45%) Comprehension & Directed writing.

Section: C =(10%) Letter writing/ Reports.

Section: D = (25%) Creative Writing.

**BENGALI (Time: 2.30 hrs.)**

**Full marks: 40+60=100**

1. (১)বাংলা থেকে ইংরেজী অনুবাদ (২) ইংরেজি থেকে বাংলা অনুবাদ (৩)Essays (8) Letters.
2. Topics:Weather and climate,childhood,food and drinks,the media,special occasions.
3. বই:(১) বাংলা ব্যাকরণ: ৯ম ও দশম শ্রেণি (Globe Library),(2) An introduction to O'Level Bengali by Devabrata Chakraborty, (৩) বাংলা একাডেমির Bangla to English Dictionary & English to Bangla Dictionary.

**MATH-B Time: P-1 (1:30) hrs. P-2 (2:30) hrs.**

**Full marks: 40+60=100**

**1. EXTENDED MATHEMATICS FOR IGCSE BY DAVID RAYNER**

**2. EDEXCEL INTERNATIONAL GCSE MATHEMATICS B** by

David Turner, B.V. Hony, I. A. Potts, W. R. J. Waite

Full Marks: 40+60=100  
(Paper 1: 20, Paper 2: 40)

**Chapter 1 (Number):**

Arithmetic, Number facts and Sequences, Approximations and Estimation, Standard form, Ratio and proportion, Percentages, Speed, Distance and Time, Calculator, Revision Exercise 1A & 1B.

**Chapter 2 (Algebra 1):**

Directed numbers, Formulae, Brackets and simplifying, Linear equations, Problems solved by linear equations, Simultaneous equations,Problems solved bySimultaneous equations, Factorising, Quadratic equations, Problems solved bySimultaneous equations, Revision Exercise 2A &2B.

### Chapter 3 (Mensuration):

Area, The circle, Arc length and sector area, Chord of a circle, Volume, Surface area, Revision Exercise 3A & 3B.

Assessment :

#### Paper 1

1 hour and 30 minutes (100 marks)

About 26 to 30 questions

#### Paper 2

2 hours and 30 minutes (100 marks)

About 12 questions

**PURE-MATH Time: (P-1: 2.00 hr.) (P-2: 2.00 hr.)**

**Full marks: 40+60=100**

**Chapter 1: Logarithmic functions & indices, Chapter 2: The quadratic function, Chapter 5: Series: (5.1) Arithmetic sequences (5.2) Adding the terms of an arithmetic sequence (5.3) Finding the sum of an arithmetic sequence (5.4)  $\Sigma$  to signify 'the sum of'**  
**Chapter 8: Rectangular Cartesian Coordinates: (8.1) The equation of a straight line (8.2) Working out the gradient of a line using formula (8.3) Finding the equation of a line using formulae.**

**BIOLOGY (Time: 2.00 hr.)**

**Full marks: 40+60=100**

**Chapter 1: Life Processes:** (a) Cell structure. (b) Enzymes: Controlling reactions in the cell, Factors affecting enzymes (c) How cell gets its energy. (d) Movements of materials in and out of cell. (e) Cells, tissues and organs. **2. Chapter 2: The Variety of Living Organisms:** (a) Plants (b) Animals, different types of nutrition (c) Fungi. (d) Protoctists. (e) Bacteria. (f) Viruses. **3. Chapter 10: Plants and Food:** (a) Plants make starch. (b) Where does the starch come from? (c) Photosynthesis (d) The structure of leaves (e) Photosynthesis and respiration (f) Investigating the effect of light on gas exchange by a leaf (g) Factors affecting the rate of photosynthesis (h) The plant's uses for glucose (i) Mineral nutrition (j) Water culture experiments.

**PHYSICS: (Time: 2.00 hr.)**

**Full marks: 40+60=100**

**Chapter 1 :** Movement and position **Chapter 2 :** Forces and shape **Chapter 3 :** Forces and movement **Chapter 4 :** Momentum **Chapter 5 :** The turning effect of forces **Chapter 6 :** Astronomy.

**CHEMISTRY: (Time: 2.00 hr.)**

**Full marks: 40+60=100**

**Chapter 1:** Kinetic Theory and Diffusion, **Chapter 2:** Atomic structure. **Chapter 3:** Bonding. **Chapter 4.** Structure. **Chapter 5.** Formulae and equations. **Chapter 12:** Periodic Table

**ECONOMICS: (Time: 2.00 hr.)**

**Full marks: 40+60=100**

**Chapter: 1, 2, 3, 4, 5, 6 Demand, supply and market equilibrium:** Role in the determination of price in the market.

**Demand :** The relationship between price and quantity demanded, Shifts and movements of demand curves, Factors affecting demand : advertising, income, population, fashion, price and other products, ie complements and substitutes

**Supply:** The relationship between price and quantity supplied, Shifts and movements of supply curves, Factors affecting supply : costs of production, indirect taxes and subsidies, and changes in technology natural factors, eg weather.

Diagrams are an essential tool for both the understanding and the analysis of demand and Supply, The concept of the market equilibrium: shifts and movements of demand and supply curves.

**Chapter: 11 The role of the market in solving the economic Problem Resolving scarcity:** Finite resources and choice, Opportunity cost and its effects on to - The individual, firms and governments, Production possibility curves to illustrate opportunity cost.

**Chapter:12 The mixed economy:** The public sector and private sector, The role of the public sector and private sectors in the production of goods and services, Types of economy.

**Chapter:13 Specialisation and division of labour:** Division of labour, advantages and disadvantages of division of labour for the worker and the firm.

**Chapter:14 The labour market:** The demand curve for the labour, factors affecting demand for labour, the supply curve of the labour, factors affecting supply of labour, wage determination.

**Chapter:15 Interference in the labour market:** Minimum wage legislation, Reasons for the legislation, Diagram to show the effects on wages and employment, Trade unions.

**Chapter:16 -17 Production and productivity:**

Factors of production : Land, labour, capital and enterprise.

Sectors of the economy : Primary, secondary and tertiary.

Changing importance of these sectors in terms of employment and output over time, in developing and developed economies and productivity.

**Chapter:18 Production costs and revenue:** Fixed and variable cost, total cost average cost, price, total revenue and profit.

**COMMERCE: (Time: 2.00 hr.)**

**Full marks: 40+60=100**

**Book:** Text book of commerce 5<sup>th</sup> Edition by Lynda Fitzmaurice

**Chapter -1. Production & commercial Activity:** (i) Production (ii) organisation of production (iii) kinds of occupations (iv) commercial activity (v) channels of distribution

**Chapter -2. The Retail Trade:** (i) Function (ii) Types (iii) Locations (iii) Techniques and trends (v) Developments **Chapter-3. Wholesale trade:** (i) Functions and services (ii)

organisation (iii) Role in distribution (iv) Trade documents (v) Intermediaries. **Chapter-4.**

**Type of Business units:** (i) sole trader (ii) partnership (iii) private & public ltd Co., (iv) franchise (v) multinational company

**BUSINESS STUDIES: (Time: 2.00 hrs.)**

**Full marks: 40+60=100**

**Chapter :- 2,3,5, 15,25,26 , 36 , 38 .**

**First class test – chapter – 2,3,5 .**

**First Midterm – chapter – 15, 25 .**

**Second class test – chapter – 26,36 , 38 .**

**ACCOUNTING (Time: 2.30 hrs.)**

**Full marks: 40+60=100**

**Text Book: Business Accounting-1, Franke Wood & Alan Sangser, 13<sup>th</sup> Edition.**

**Chapter 1:** The background and the main features of financial accounting **Chapter 2:**

Recording transactions **Chapter 3:** Inventory **Chapter 4:** The effect of profit or loss on

capital and double entry system for expenses and revenues **Chapter 5:** Balancing off

accounts **Chapter 6:** The trial balance **Chapter 7:** Statement of profit or loss: an introduction

**Chapter 8:** Statement of financial position **Chapter 9:** Statement of profit or loss and

statement of financial position: further considerations **Chapter 10:** Accounting concepts and

assumptions.

**ICT (Time: 2.00 hrs.)**

**Full marks: 40+60=100**

**Book:** 'O' level Computing by Riazul Hamid

Chapter 1: Elements of Computer Systems, Chapter 2: Input, Output and Storage Devices,

Chapter 3: Capturing Data, Chapter 4: Range and Scope of Computer Applications

Chapter 5: Software, Chapter 6: Operating System

**Practical:**i) Word/Image processing softwareii) Presentation software iii) Spreadsheet software