

SYLLABUS FOR ENTRY TEST IG-III

DAY 1

ENGLISH

- Comprehension Passage (Unseen)
- Creative writing

MATHEMATICS

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| <ul style="list-style-type: none"> • Perimeter and Area of Simple Geometrical Figures. • Ratio, Rate and Speed • Arithmetical Problems, Percentages • Expansion and Factorization of Algebraic Expressions • Algebraic manipulation and formulae • Pythagoras's Theorem • Variations | <ul style="list-style-type: none"> • Simultaneous Linear Equations • Solution of Quadratic Equations • Coordinate Geometry • Congruent and Similar Triangles • Area and Volume of Similar Figures and Solids • Volume and Surface Area of Cylinder, Cone, Sphere and Pyramid, Cube & Cuboid |
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DAY 2

PHYSICS

- Length and Time
- Volume
- Density
- Mass and Weight
- Kinematics
- Dynamics
- Elastic Deformation
- Turning Effect of Forces
- Momentum
- Pressure
- Work Energy Power
- Transfer of Thermal Energy
- Temperature
- Thermal Properties of Matter
- Kinetic Model of Matter

CHEMISTRY

- Atomic Structure
- Bonding
- Acids/Basis/ Salts
- Moles
- The periodic Table
- Experimental Techniques

BIOLOGY**Biology A Course for O Levels****by LAM PANG KWAN**

- Cells
- Diffusion Osmosis Active Transport
- Enzymes
- Nutrients
- Nutrition in Mammals
- Nutrition in Plants
- Transport in Mammals
- Transport in Plants
- Respiration
- Excretion
- Homeostasis

COMPUTER SCIENCE

- Chapter 4: Operating system and Computer Architecture
- Chapter 7: High and Low level Languages
- Chapter 8: Security

ACCOUNTING

- Role of accounting
- The Double Entry system of book-keeping
- Documentary records
- Books of prime entry
- The Cash Book
- The General Journal
- The Ledger
- The Trial Balance
- Adjustments to ledger accounts
- Control accounts
- Error in trial balance & suspense account

Accounting procedures

- Capital and revenue expenditure and receipts
- Accounting for depreciation
- Correction of errors
- Control accounts

Financial statements

- Income statements
- Statements of Financial Position

BUSINESS STUDIES

- Purpose and types of business activity
- Enterprise, business growth and size
- Types of business organizations
- Business objectives and stakeholder's objectives
- Motivating workers
- Organization and management
- Recruitment, selection and training
- Internal and external communication
- Marketing, competition and the customer
- Marketing research
- Product
- Price
- Promotion
- Placement
- The Marketing Strategy

ECONOMICS

- Basic economic problem
- Factors of production
- Opportunity Cost
- Economic systems
- Demand and Supply
- Price elasticity of demand and supply
- Social costs and benefits
- Government intervention to correct market failure
- Money (functions and characteristics)
- Banks (commercial and central)
- Stock Market
- Labor market (demand and supply of labor)

- Market wage
- Why people earn different amounts?
- Role of Government in labor market
- Trade unions
- Consumption, Saving and Borrowing
- Types of Business Organizations
- Production
- Specialization/ Division of labor
- Costs of Production
- Revenues and profits
- Economies of scale
- Diseconomies of scale
- Growth (internal and external)
- Competition and its types.

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