



SEGMENT-2 EXAMINATION SYLLABI FOR IGCSE-1, 2016-2017

ENGLISH

A. READING SKILLS

- Skimming and scanning, Summarizing, paraphrasing and re-expressing
- Explaining explicit and implicit meaning, commenting on writers' choice of language
- Extracting appropriate information for specific purpose
- Synthesizing, developing, analyzing and evaluating ideas, facts and opinions
- Making notes using own words, recognizing purpose and viewpoint in a text
- Writing summary based on notes

B. WRITING SKILLS

- Directed writing- descriptive, argumentative
- Continuous writing- response to articles, letters
- Effective expression of- what is thought, felt and imagined; ideas, facts and opinions, use of varied vocabulary, adjectives and imagery, stylistics and figurative language
- Text and sentence structuring
- Accuracy in spellings, grammar and punctuation

HINDI

A. READING

- Understanding public notices and signs (including timetables and advertisements).
- Extracting relevant specific information from forms, letters, brochures and examples of imaginative writing considered likely to be within the experience of and reflecting the interests of young people from varied cultural backgrounds.
- Scanning for information, organizing the relevant information and presenting it in a logical manner/given format.

B. WRITING

- Carrying out simple writing tasks, e.g. completing forms, short pieces in an appropriate and accurate form of Hindi in response to a written stimulus.
- Demonstrating the ability to describe, report, giving personal information.
- Identifying, organising and presenting given material in a particular form

C. LISTENING

- Demonstrating understanding of specific details, information and semi-formal announcements in contexts such as news, weather, travel broadcasts, and in interviews, dialogues and telephone conversations.
- Demonstrating general comprehension of the speaker's intentions where appropriate

MATHS

- Numbers, LCM, HCF, directed numbers, fractions, ordering, scientific notation, estimation, approximation, bounds.
- Percentage, ratio & proportion, speed, distance time, reverse percentage, simple and compound interest, map scale, use of calculator.
- Algebraic expression, factorization, indices.
- Linear equations in one and two variables.
- Quadratic equations and finding solutions.
- Sequence and finding 'nth' term.
- Graph and gradient.
- Function
- Geometry: parallel lines, symmetry, triangles, angles, similarity, construction, Pythagoras theorem, locus, circle theorems.
- Areas and volumes of 2-D and 3-D shapes.

E V M

- Lithosphere (Segment 1)
- Hydrosphere.

Case studies, if you were an environmentalist types alternative to course work questions, short answers. Pie charts, graphs, tables, flowcharts, bar graph, maps.

BIOLOGY

- Units-2,3,4
- Heredity variation (Segment 1)
- Green plants and organisms
- Respiration and circulation.

MCQ . short answer types, long answers label or identify the specimen based on diagrams.

CHEMISTRY

- **Atoms** : the big idea : Atoms, elements and compound; More about atoms; Isotopes; How electrons are arranged; How ideas of atom developed; The atom.
- **Bonding** : Why compounds form; The ionic bond; Some other ions; Ionic compounds and their properties; The covalent bond; Covalent substances; Metals.
- **Acids and bases** : Acids and alkalis; The reactions of acids; A closer look at neutralization; Acids and alkalis in everyday life.
- **The metals** : Metals and periodic table; How the periodic table developed; Group 1; The patterns within group1; The transition metals; Metals and reactivity.
- **Extracting metals** : Metals in the earth's crust; Extracting metals from their ores; Making use of metals; Extracting iron; Principles of electrolysis; Extracting aluminum; Purifying copper by electrolysis; Corrosion; Metal, civilization and you
- **The non-metals** : The non-metal group in periodic table; Reaction of halogen; Compounds of halogens; The electrolysis of sodium chloride; The chlor-alkali industry

PHYSICS

- **Forces and motion** : Mass weight and gravity, force mass and acceleration, momentum and conservation of momentum
- **Forces and Matter** : Forces acting on solids, stretching springs, Hooke's law, pressure
- **Energy Transformation and Energy Transfers** : Forms of energy, energy conservations, conservation of energy, energy calculations.
- **Work and Power** : Calculating work done and power
- **The kinetic model of matter** : States of matter, The kinetic model of matter, forces and kinetic theory, gases and kinetic theory
- **Thermal properties of matter** : Designing a thermometer, thermal expansion, thermal capacity, specific heat capacity, latent heat
- **Thermal energy transfers** : Conduction, convection, radiation
- Properties of waves Describing waves; speed, frequency and wavelength; sound, how sound travels (sound propagation), echo and SONAR

ECONOMICS

A. Section: 1 – The Basic Economic Problem

- Unit: 1 – Scarcity (Segment 1)
- Unit: 2 – Factors of Production (Segment 1)
- Unit: 3 – Opportunity Cost (Segment 1)

B. Section: 2 – Allocation of Resources

- Unit: 4 – Market and Mixed Economies (Segment 1)
- Unit: 5 – Equilibrium Price (Segment 1)
- Unit; 6 – Changes in Demand
- Unit: 7 – Changes in Supply

- Unit: 8 – Price Elasticity of Demand

- Unit: 9 – Price Elasticity of Supply

C. Section: 4 – The Private Firm as Producer and Employee

- Unit: 23 – Types of Business Organizations
- Unit: 24 – Demand for Factors of Production
- Unit: 25 – Costs of Production

D. Section: 6 – Economic Indicators

- Unit: 38 – Employment
- Unit: 39 – Causes and Consequences of Unemployment

E. Section: 7 – Developed and Developing Countries

- Unit: 42 – Different Stages of Development
- Unit: 43 – Inequality and Poverty
- Unit: 44 – Population Growth
- Unit: 45 – The Effects of Changes in Population
- Unit: 46 – Problems of Development

ACCOUNTS

- Introduction to Accounting, Including accounting equation (Segment 1)
- Journal (Segment 1)
- Double Entry Bookkeeping - Part A (Ledger)
- Double Entry Bookkeeping - Part B (Cash Book)
- Petty Cash Book
- Books of Prime Entry
- Trial Balance
- Financial Statements - Part A (Trading and Profit & Loss Account including adjustments)
- Financial Statements - Part B (Balance Sheet including adjustments)

BST

Understanding business activity	Business activity Classification of businesses Enterprise, business growth and size Types of business organisation Business objectives and stakeholder objectives (Segment 1)
People in business	Motivating workers (Segment 1) Organisation and management Recruitment, selection and training of workers Internal and external communication
Marketing	Marketing, competition and the customer Market research Marketing mix : Product Marketing mix : Price Marketing mix : Promotion Marketing mix : Place Marketing strategy
External influences on business activity	Government economic objectives and policies Environmental and ethical issues

ICT

- Types and components of a computer system
- Input and Output devices
- Storage devices and media
- Networks and effect of using them
- The Effect of using ICT
- ICT Applications
- File Management
- Images
- Layout

- Styles
- Proofing
- Graphs and Charts
- Document Production.
- Data Manipulation Presentation

Paper 2

- Document Production
- Data Manipulation Presentation

COMPUTER SCIENCE

- Data Representation
- Communication and Internet Technologies
- Computer Architecture, Languages and Operating Systems.
- Logic Gates
- Input Devices
- Sensors
- Output Devices
- Memory, Storage Devices and Media
- Programming Concepts
- Pseudocode and Flowcharts
- Algorithm Design and Problem Solving Data bases

Paper 2

- Programming Concepts
- Pseudocode and Flowcharts
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