

ENGLISH ... Grade: 7 ... Allocated Marks: 20 ... Time Allowed: 50 minutes

Educational institutions established in private sector introduce different series of books particularly on this subject which vary from school to school. Keeping in view this problem, no text book is recommended for Entry Test. However, in order to evaluate the proficiency of candidates in English, a comprehensive paper is set which carries simple and common questions according to the **age/ class level** of the students.

SYLLABUS of ENGLISH for ADMISSION to Grade: 7

TITLE of the ACTIVITY Function/Requirement	No. of Attempts (Parts of the Question)	Marks Allocated to each Attempt	Total Marks of the Question
Vocabulary			
Correction of Spellings	2	0.5	1.0
Meanings of Words in English or in Urdu	4	0.5	2.0
Words-Opposites (Antonyms)	2	0.5	1.0
Word Families (Verbs, Nouns, Adjectives, Adverbs)	4	0.5	2.0
Grammar			
Articles (a, an, the)	2	1.0	1.0
Prepositions	2	1.0	1.0
Choosing the Correct Main Verb	1	1.0	1.0
Choosing the Correct Auxiliary Verb	2	1.0	2.0
Correction of the Sentence	1	1.0	1.0
Changing Tenses of the Sentences (Present/Past/Future)	1	1.0	1.0
Voices (Active Voice/Passive Voice)	1	1.0	1.0
Sentence Formation of Words	3	1.0	3.0
Translation of Urdu Sentences into English	3	1.0	3.0

MATHEMATICS ... Grade: 7 ... Allocated Marks: 20 ... Time Allowed: 45 minutes

The ability of the students regarding general concepts of Mathematics, practiced in the respective classes at every school, is evaluated through the Entry Test paper of Mathematics. The paper comprises of five sums carrying 4 marks each. The very first question of the paper is in objective form, however, the rest of 4 questions are picked up as calculation based sums.

- Fill in the blanks (1.0×4)
- Sums (4.0×4)

SYLLABUS of MATHEMATICS for ADMISSION to GRADE : 7

Natural and Whole numbers: Natural numbers & Whole numbers, Place value, Comparison & Ordering of numbers, Operations on numbers & their real life application ,Rounding off, order of operations (BODMAS) on numbers, Square and Cube of numbers

Integers: Integers and their representation on number line, Operations on integers , Comparison & Ordering of integers, properties of integers (Commutative, Associative, Distributive), additive identity and multiplicative identity of integers

Fractions and Decimals: Fractions, Reduction to its lowest form, Equivalent fractions, converting fractions into decimals & vice versa, Operations on fractions & decimals and its real-life application, Order of operations (BODMAS) on fractions and decimals, Rounding off decimals

Ratio and Percentage: Ratio & its simplification, Equivalent ratio, Relation between ratio & fraction, Concept of percentage, Conversion of decimal and fraction into percentage and vice versa, Application of percentage (profit, loss, discount), Finding percentage change (increase or decrease, increasing or decreasing a quantity in given percentage, real life situations involving Ratio and percentage

Factors and multiples: Odd numbers, Even numbers, Prime numbers and Composite numbers, Divisibility Rules, Common Multiples and Common factors, Prime Factorization by division & Factor tree method, Index notation, LCM & HCF, Real life situations involving LCM & HCF.

Algebra: Algebraic expressions & their Addition & subtraction, multiplication of algebraic expression with integers, Evaluation of algebraic expression and formula, Simplification of algebraic expression, Algebraic sentences, True, False & Open Sentences, Formation of linear equation in one variable & solution of linear equation in one variable, Real life situations of formation of linear equation.

SYLLABUS of SCIENCE for ADMISSION to GRADE: 7

Basic level of Cellular Organization: Cell, Tissue, Organ, Organ System, Organism
Animal and Plant Cells: Structure, Similarities and Differences, sexual and asexual reproduction in plants
Constituents of a Balanced Diet: Protein, Carbohydrates, Fats, Water, Minerals and Vitamins
Human Digestive System

Particle theory of Matter:
Changes in states of Matter: Melting, Freezing, Vapourization, Condensation, Sublimation and Deposition
Elements (Metals and Non-metals) **and Compounds**
Mixtures and its types: Homogeneous and Heterogeneous, Separation Techniques for Mixtures (Filtration, Evaporation, Distillation and Chromatography)
Formation of Solutions

Kinetic and Potential Energy: Types of Energy, Energy Conversions, Law of Conservation of Energy, Renewable and Non-Renewable Energy Sources
Electricity: Static Electricity, Electric Current, Electric Circuit, Open and Closed Circuits, Series and Parallel Circuits
Magnetism: Magnetic Field, Magnetic Field around a Conductor, Types of Magnet, Electromagnet, Magnetization and Demagnetization