

ENGLISH ... Grade: 7 ... Allocated Marks: 20 ... Time Allowed: 45 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 candidate 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 / Synonyms in English or in Urdu	4	0.5	2.0
Words-Opposites (Antonyms)	2	0.5	1.0
Forms of Verbs (Infinitive/Past/Past Participle)	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 in Sentences	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, for all levels, comprises of five sums carrying 4 marks each. The very first question of the paper, is in objective form, however, the rest of the 4 questions are picked up as calculation-based sums.

- Fill in the Blanks (1.0 x 4)
- Sums (4.0 x 4)

SYLLABUS of MATHEMATICS for ADMISSION to CLASS: 7

Natural & Whole numbers: Counting, Ordering of numbers, Place value, Rounding off, Operations on natural & whole numbers, Order of operations (BODMAS), Word problems, Square and Cube of numbers, Divisibility rules

Integers: Integers and their representation on number line, Operations on integers, 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, Use of Brackets in fractions, converting fractions into Decimals & vice versa, Rounding off Decimals, Operations on Fractions & Decimals

Percentage, Ratio & Proportion: Concept of percentage, Relation among percentage, common fraction & decimal, Application of percentage (Profit, loss, Discount), Increase and Decrease in percentage, increasing or decreasing a quantity by given percentage, Ratio among three or more quantities, Simplified form of ratio, Relation between Ratio & fraction, Direct & Inverse Proportion, Word problems.

Factors and multiples: Odd, Even, Prime and Composite numbers, Common multiples and Common factors, Prime Factorization, Factor tree, Index notation, LCM & HCF, Word problems involving LCM & HCF.

Algebra: Algebraic expressions/Sentences (True, False, Open Sentences), Simplification of algebraic expression, Evaluation of algebraic expression/formulae, Formation of linear equation & solution of linear equation, Addition & subtraction of algebraic expression, multiplication of algebraic expression with Integers.

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