

ENGLISH ... Class: 8 ... 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 the Entry Test. However, in order to evaluate the proficiency of the candidate in English, a comprehensive paper is set which carries simple and common questions according to the **age/class level** of the students.

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/Synonym or in Urdu	4	0.5	2.0
Words – Opposite (Antonyms)	2	0.5	1.0
Word Families (Verbs into Nouns & Adjectives or vice versa)	4	0.5	2.0
Grammar			
Articles (a, an, the)	2	0.5	1.0
Prepositions	2	0.5	1.0
Choosing the Correct Main Verb	1	1.0	1.0
Choosing the Correct Auxiliary Verb	2	1.0	2.0
Changing Tenses of the Sentences (Present/Past/Future)	1	1.0	1.0
Voices (Active voice/Passive voice)	1	1.0	1.0
Narration (Direct/Indirect Speech)	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 ... Class: 8 ... Allocated Marks: 20 ... Time allowed : 50 minutes

The ability of the students regarding general concepts of Mathematics, practised 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 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: 8

Sets: (Types of set, Subset, Power set, Union, Intersection, difference of two sets
Compliment of a Set, Commutative & Associative properties of sets)

Rational Numbers/Decimals: (Operations on Rational numbers, Verification of Commutative, Associative & Distributive properties of Rational numbers, Order of Rational Numbers, Representation of Rational numbers on Real Number line, Types of Decimals, Conversion of Rational numbers to Decimals and Rounding off of Decimals)

Square Root:(Finding Square roots of Natural numbers, Common fractions, and Decimals which are perfect squares by Factorization & by Division method, Solving Word Problems Related to Square Roots)

Direct & Inverse Variation: (Continued ratio, Direct & Inverse Proportion, Real life problems by unitary and by proportion method, Real life problems related to **Time & Work** and **Time & Distance**, Conversion of units of speed)

Algebra: (Algebraic Expressions and Sentences, Types and Order of Polynomials, Addition/ Subtraction and Multiplication of Polynomials, Expansion of algebraic expressions by using identities $(a+b)^2$, (a^2-b^2) , Factorization by using identities $(a+b)^2$, (a^2-b^2) , Solution of Linear equations & related word problems.

SYLLABUS of SCIENCE for ADMISSION to CLASS 8

Parts of an Ecosystem (population & community), Types of Ecosystem, Adaptations in Plants and Animals, Flow of Energy in an Ecosystem, Food Web, Recycling of the Nutrients in an Ecosystem Human Digestive Respiratory and Circulatory Systems, Absorption and Transport throughout the Plant Body, Kinds of Reproduction in Plants, Structure of a Typical Flower, Pollination & its kinds, Pollinators, Fertilization in Plants, Formation and Structure of Seed & Fruit

Atomic Number and Mass Number, Basic Electronic Configuration and Atomic Structure of First 18 Elements of the Periodic Table, Valency, Formation of Ions, Writing Chemical Formulae of Ionic Compounds, Physical and Chemical Changes, Cleaning of Water, Water Pollution

Flow of Current, Voltage & Resistance, Parallel & Series Circuits, Ohm's Law, Longitudinal and Transverse Waves, Amplitude, Frequency, Wavelength, Pitch, Loudness, Refraction of Light in Air/Glass/Water; Dispersion of Light by a Prism; Spectrum of White Light, Conduction, Convection, Radiation and their daily life applications, Conductors and Insulators