

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: 45 minutes

The ability of the students regarding general concepts, practiced in the respective classes at every school, is evaluated through the Entrance Test paper of Mathematics. For all levels, the paper comprises 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× 4)
- **Sums** (4.0× 4)

SYLLABUS OF MATHEMATICS FOR ADMISSION TO CLASS: 8

Sets: Forms of sets, types of sets, operations (union, intersection, difference & compliment) on sets, properties (Commutative & Associative) on sets, representing sets through Venn diagram.

Rational Numbers: Rational numbers & their representation on Real number line, comparison & ordering of rational numbers, conversion of rational numbers to decimals, Rounding off decimals, Additive and multiplicative identity, Additive & multiplicative inverse of rational numbers, properties (commutative, associative & distributive) of rational numbers.

Square & Square Root: Finding square of numbers, square root of natural numbers, common fractions and decimals which are perfect squares by prime factorization & by division method. Related word problems.

Direct & Inverse Variation: Continued ratio, Direct and inverse proportion, related word problems by unitary & by proportion method, Real life problems related to time & work, time & distance, conversion of units of speed.

Algebra: Algebraic expression & sentences, polynomial & its type w.r.t. terms & degree. Addition, subtraction & multiplication of polynomials, Expansion of algebraic expressions by using identities & factorization by using identities. Formation of linear equation & finding its solution.

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