ENGLISH ... Grade: 8 ... Allocated Marks: 35... Time Allowed: 70 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 guestions according to the **age/class level** of the students.

TITLE of the ACTIVITY	No. of Attempts	Marks Allocated	Total Marks
Function/Requirement	(Parts of the Question)	to each Attempt	of the Question
Vocabulary		1	-
Correction of Spellings	2	0.5	1.0
Meanings of Words in English or in Urdu /Synonym	3	1.0	3.0
Words – Opposite (Antonyms)	2	1.0	2.0
Word Families (Verbs, Nouns, Adjectives, Adverbs)	2	1.0	2.0
Commonly Confused Words / Pair of Words	4	0.5	2.0
Grammar		1	
Articles (a, an, the)	2	0.5	1.0
Prepositions	2	0.5	1.0
Conjunctions	2	0.5	1.0
Choosing the Correct Main Verb	2	1.0	2.0
Choosing the Correct Auxiliary Verb	2	1.0	2.0
Changing Tenses of the Sentences (Present/Past/Future)	1	1.5	1.5
Changing Sentence Type (Affirmative, Negative, Interrogative)	1	1.5	1.5
Voices (Active Voice/Passive Voice)	1	1.5	1.5
Narration (Direct/Indirect Speech)	1	1.5	1.5
Sentence Formation of Words	2	1.5	3.0
Translation of Urdu Sentences into English	2	1.5	3.0
Paragraph Writing	1	6.0	6.0

MATHEMATICS ... **Grade: 8** ... Allocated Marks: **35** ... Time Allowed: **70** 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 three sections. The very first question of the paper, is in objective form, however, the second portion of paper is calculation based sums, and the last portion is of problem solving skills, geometry & shapes. (Note: Calculator is not allowed)

- Fill in the Blanks (1.0 x 4)
- Sums (4.0 x 4)
- Problem Solving Skills, Geometry & Shapes (5.0 x 3)

SYLLABUS of MATHEMATICS for ADMISSION to GRADE: 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, **Rounding** off Decimals)

<u>Square Root:</u>(Finding Square Roots of Natural Numbers, Common Fractions, and Decimals which are Perfect Squares, Solving Word Problems Related to Square Root)

Direct & Inverse Variation: (Continued Ratio, Direct & Inverse Proportion, Solving Real Life Problems by Unitary Method and by Proportion Method, Real Life Problems Related to Time & Work and Time & Distance, Conversion of Units of Speed i.e. Km/h to m/s and vice versa

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

& related word problems

<u>Geometry</u>: Concept of **circle**, relation between **radius and diameter**, **area & circumference** of circle, Real life application of area and circumference of circle

SYLLABUS of SCIENCE for ADMISSION to GRADE: 8

Plant Systems: Root and Shoot Systems, Leaves, Transport in Plants, Transpiration, Photosynthesis, Respiration

Human Respiratory and Circulatory Systems;

Immunity and Diseases: Innate, Adaptive and Passive Immunity, Infectious Diseases

Physical and Chemical Changes: Explanation and Examples, Rusting, Tarnishing and Combustion

Structure of an Atom: Atomic Number, Mass Number, Modern Periodic Table, Distribution of Electrons in Shells

Ionic and Covalent Bond

Formation of a Solution: Dilute and Concentrated Solutions, Solubility, Factors Affecting Solubility

Water Conservation

Preservation of Food

Force and Motion: Speed, Distance, Force (Contact and Non-Contact)

Mechanical and Electromagnetic Waves: Transverse and Longitudinal Waves, Properties of Waves, Sound Waves and Its Properties

Temperature Scales (Kelvin, Celsius and Fahrenheit)

Heat: Thermal Expansion, Conduction, Convection and Radiation.