ENGLISH … **Class: 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 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	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 … Class: 7 … 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: 7

Integers: Integers and their representation on number line, comparison & ordering of integers, absolute/numerical value. Additive & multiplicative identity, operations (addition, subtraction, multiplication & division) on integers, BODMAS rule on Integers, Properties (commutative, Associative, Distributive) on integers & related word problems.

Factors & Multiples: Even, Odd, Prime & Composite Numbers, Divisibility rules, Multiples & Factors, Prime Factorization, Finding HCF & LCM. Relation between HCF & LCM. Real life application of HCF & LCM.

Fractions, Decimals & Percentage: Fraction, decimals, equivalent fraction, lowest form of fractions, comparison of fractions and decimals, conversion of fraction to decimal and vice versa, operations (addition, subtraction, multiplication & division) on fractions and decimals. Rounding off decimals, BODMAS rule on fractions & decimals. Concept of percentage, expressing fraction & decimal into percentage & vice versa, percentage of a quantity, finding part given percentage & whole. Finding percentage loss, profit & discount. Related word problems.

Ratio and Proportion: Ratio between two or more quantities, simplification of ratio, relation between ratio and fraction, proportion, direct and inverse proportion, unknown proportional, related word problems.

Algebra: Algebraic expression/sentences, types of sentences, (Open, True & false) simplification of algebraic expression, addition & subtraction of Algebraic expressions, multiplication of algebraic expression with an integer. Evaluation of algebraic expression/formulae, Formation of the linear equation & finding its solution.

SYLLABUS of SCIENCE for ADMISSION to CLASS 7

Biotic & Abiotic Components of Environment, Relationships among Organisms, Food Chain, Plant & Animal Cells (similarities and differences), Cell Organelles, Basic Level of Cellular Organization, Sense Organs, Photosynthesis and Respiration in Plants

Atoms & Elements, Classification of Elements, Molecules & Compounds, Mixtures, Solutions and its Components & Types, Separating Components of Mixtures through Filtration, Distillation, Condensation & Sublimation, Composition of Air, Properties & uses of Carbon dioxide, Nitrogen & Oxygen

Energy (kinetic & potential), interchange (inter-conversion) of different forms of energy, Conservation of Energy, Basic Components of an Electric Circuit, Production & Propagation of Sound, Transmission and Reflection of Light, Laws of Reflection of Light, Types of Reflections, Types of Images and their Formation, Convex and Concave Mirrors, Simple Machines (wheel & axle, pulley)