

**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
<b>Vocabulary</b>			
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
<b>Grammar</b>			
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
<b>Sentence Formation of Words</b>	3	1.0	3.0
<b>Translation of Urdu Sentences into English</b>	3	1.0	3.0

**MATHEMATICS ... Class: 7 ... 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: 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

**Fractions (Rational numbers) and Decimals:** Fractions, Reduction to its lowest form, Equivalent fractions, Use of Brackets in fractions, converting fractions into Decimals & vice versa, Rounding off of Decimals, Operations on Fractions & Decimals, Properties of rational numbers (Associative, Commutative, Distributive).

**Percentage, Ratio & Proportion:** Concept of percentage, relation among percentage, common fraction & Decimals, Application of percentage (Profit, loss, Discount), 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 and Formation of linear equation & solution of linear equation. Addition & subtraction of algebraic expression, multiplication of algebraic expression with Integers.

**Integers:** Integers and their representation on number line, Operations on integers, Ordering of integers, Additive identity and multiplicative identity of Integers

## **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)