Bal Bharati Public School, SGRH Marg, New Delhi

Common Aptitude Test Session 2012-13

Syllabus: Mathematics (Class: 3)

Objectives:-

- 1. To ensure a complete understanding of the basic concepts of each topic taught in the class.
- 2. To lead the pupils to arrive at conclusion and generalization through concrete exercises and activities.
- 3. To improve the power to think and work in an organized way.
- 4. To develop an attitude of intellectual honesty among the students.

Grade 3 Level Description

The proficiency strands: Understanding, fluency, problem solving and reasoning are an integral part of mathematics content across the three content strands:

- i) Number algebra
- ii) Measurement and geometry
- iii) Statistics.

Content Description

- 1. Number and place value
 - a) Investigate the conditions required for a number to be odd or even and identify odd and even numbers.
 - b) Recognize, represent and order numbers upto at least 9999
 - Write numbers in words & figures.
 - Put numbers in order.
 - Comparing numbers
 - Recognise the place value and face value of the given digits in numbers upto 4 digits.
 - c) Apply place value to partition, rearrange & regroup number
 - Extend the numeric pattern (Expanded form) and convert in standard form.
 - Formation of the greatest and smallest numbers.

2. Recognize, describe and represent Roman Numerals.

- Rules to write Roman Numerals.
- Recognise and represent numbers upto 39 using Roman Numerals.

3. Operations on numbers

- a) Recall addition facts for single-digit numbers to develop increasingly efficient mental strategies for computation.
 - Understanding the properties of addition

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- Addition of numbers upto 4-digit without and with carryover.
- Solving simple word problems useful in our day to day life
- b) Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies.
 - Multiplication skill builders
 (Multiplication of 4 digit Numbers by 1 digit
 (Multiplication of 2 and 3 digit Numbers by 1 and 2 digit numbers)
 - Multiply numbers ending in zeroes.
 - Solving simple word problems useful in our day to day life.
- c) Recall subtraction facts for single digit numbers to develop increasingly efficient mental strategies for computation.
 - Understanding the properties of subtraction
 - Subtraction of numbers upto 4 digit without and with borrowing.
 - Solving simple word problems useful in our day to day life.
- d) Represent and solve problems involving division.
 - Understanding division by repeated subtraction.
 - Simple division

4. Fractions

• Model and represent unit fractions including $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$ and their multiples to complete a whole.

5. Money and financial mathematics

- Recognition of coins, currency notes of different denominations.
- Represent money values in multiple ways and count the change required for simple transactions.
- Money: Count coins and notes
- Money: purchases Do you have enough money?
- Money: Conversion Rupees to paise

6. Measurement and Geometry

- Identification of standard and non-standard units.
- Measure, order and compare objects using familiar metric units of length, mass and capacity.
- Addition and subtraction of length, weight and capacity.

b) **Geometry**

- Understanding different 2-D and 3-D shapes
- Open and closed figures.

7. Measurement of Time

• Investigate the relation between days in weeks, months and year.

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- Read and write time
 - o O'clock
 - o Half Past
- Identify and use a.m. and p.m. to represent time.

8. Patterns and data handling

- Recognise and represent the patterns around us.
- Collection and Representation of the data.