



BAL BHARATI PUBLIC SCHOOL, PITAMPURA

COMMON APTITUDE TEST (2014)

SYLLABUS: MATHEMATICS (GRADE V)

CONTENT DESCRIPTION

1. Numbers and Operations (upto 6-digits in Indian Place Value System)[43 marks]

a) NUMBER SENSE

- i. Write numbers in words and figures
- ii. Put numbers in order
- iii. Comparing numbers
- iv. Recognise the place value and face value of the given digits in a number.
- v. Formation of Numbers (Greatest/ Smallest using the given digits)
- vi. Standard and Expanded Form
- vii. Odd and Even Numbers

b) ADDITION

- i. Terms associated with Addition – Addends & Sum
- ii. Properties of Addition
- iii. Addition of Numbers(with or without regrouping)
- iv. Solving simple word problems useful in our day to day life.

c) SUBTRACTION

- i. Terms associated with Subtraction – Minuend, Subtrahend and Difference
- ii. Properties of subtraction.
- iii. Subtraction of Numbers(with or without regrouping)
- iv. Solving simple word problems useful in our day to day life.
- v. Solving problems using integrated operations(Addition & Subtraction together)

d) MULTIPLICATION

- i. Terms associated with Multiplication – Multiplicand , Multiplier and Product
- ii. Properties of Multiplication
- iii. Multiplication of 4-digit by 2- digit / 3-digit numbers by algorithm and lattice method.
- iv. Solving simple word problems useful in our day to day life

e) DIVISION

- i. Terms associated with division – Divisor, Dividend, Quotient and Remainder
- ii. Properties of Division
- iii. Understanding division by repeated Subtraction
- iv. Solve problems involving division by 1- digit / 2-digit numbers including those that result in a remainder along with the rule of verification.
- v. Division by 10, 100, 1000
- vi. Test of Divisibility (2, 3, 5 and 10 only)
- vii. Solving simple word problems useful in our day to day life

f) FRACTIONS

- i. Representation of Fractions as part of a whole/ collection
- ii. Types of Fraction
- iii. Finding Equivalent Fractions
- iv. Converting Improper Fraction to Mixed Fraction and vice versa
- v. Addition and Subtraction of Like Fractions

2. Money [5 marks]

- i. Recognition of Indian coins and currency notes of different denominations
- ii. Represent money values in multiple ways and count the change required for simple transactions.
- iii. Converting Rupee to Paise and vice versa
- iv. Preparation of bill
- v. Addition and Subtraction of Money

3. Measurement [23 marks]

a) MEASURES OF LENGTH , MASS & CAPACITY

- i. Standard Unit of Measurement
- ii. Identification, Comparison and Conversion of bigger to smaller units
- iii. Addition and Subtraction of measures of Length, Mass and Capacity.
- iv. Calculate the perimeter of irregular and regular figures (square, rectangle and triangle)

b) TIME

- i. Reading time on a clock to the nearest minute
- ii. Writing time in 12 hour and 24 hour clock
- iii. Conversion of 12 hour clock time to 24 hours and vice versa
- iv. Addition and Subtraction of time
- v. Calculating time interval
- vi. Understanding Calendar Facts

4. Geometry [17 marks]

- i. Understanding 2-D and 3-D Shapes
- ii. Open and Closed Figures.
- iii. Differentiating between line, line-segment and ray.
- iv. Circle and its elements
- v. Relation between Diameter and Radius.

5. Data Handling [6 marks]

- i. Understanding the concepts of symmetry.
- ii. Recognizing patterns in pictures and numbers and extending the series.

6. Patterns [6 marks]

- i. Understanding the concepts of symmetry.
- ii. Recognizing patterns in pictures and numbers and extending the series.

Please note:

1. There will be no overall choice. All questions are compulsory.

2. Weightage to Difficulty level of Question:
 - a) Easy 20 %
 - b) Average 60%
 - c) Difficult / HOTS 20%

3. Typology of questions:

In order to assess different abilities related to the subject, the question paper is like to include questions based on:

 - a) Knowledge
 - b) Understanding
 - c) Application
 - d) Higher Order Thinking Skills