FACULTY OF SCIENCES

SYLLABUS
of
Vedic Mathematics
For
Six months certificate course in Vedic mathematics
Under Absolute Marks System with Grades

Session: 2018-19

The Heritage Institution

KANYA MAHA VIDYALAYA
JALANDHAR
(Autonomous)

Syllabus
Session 2018-19
Course Name: Six months certificate course in Vedic mathematics.
Course Code: CVML-1331

Time: 3 Hours **Max.Marks: 100**

Instructions for the paper setters/examiners:
Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

UNIT-I

History of Vedic maths, why Vedic maths, salient features of Vedic maths, Vedic maths formulas, 16 sutras, 13 sub sutras, terms and operations. High speed addition by using the concept of computing the whole and from left to right , super fast subtraction by using the concept of completing the whole and from left to right.

UNIT-II

Multiplication by Urdhavtrighbhyam sutram, multiplication by Vinculum sutram, multiplication by Nikhilam sutram, fast multiplication by 11, 12 and 13, multiplication of numbers consisting of all 9s, multiplication of numbers nearest to the base 10, and multiplication of numbers with sub base 50,500,5000.

UNIT-III

Meaning of Ekadhiken Sutram and its applications in finding squaring of numbers ending in 5, squares by Anurupeyana Sutram, square by Yavdunam thavadunikritya vargamcha yojyet sutram, squaring by Dwandvayoga sutram, squaring numbers nearest 50, square roots of perfect square, general method of square roots, cubes by Anurupeyana sutram, cube by Yavdunam sutram.

UNIT-IV

Cubic equations, roots of polynomials, decimals, fractions & equations, division by Nikhilam sutram, division by Urdhav sutram, division by Paravartya sutram, division by Anurupeyana sutram, division of polynomials, factors of general second degree equation by Lopsthapanabhayam Sutram