

(i) Printed Pages : 2

Roll No. ....

(ii) Questions : 5

Sub. Code :

1	1	3	6	1
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Exam. Code :

5	0	0	4
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NEP U.G. Common-Value Added Course 4<sup>th</sup> Semester

(2056)

MATHEMATICS

Paper : Vedic Mathematics

Time Allowed : 1½ Hours]

[Maximum Marks : 16

Note :— Attempt three questions in all, selecting one question from each unit. Q. No. 1 is compulsory.

1. (a) How many sub-sutras are there in Vedic Mathematics?
- (b) Find Vinculum number of 394.
- (c) Evaluate (use Ekadhikena Purvena) of evaluate  $75 \times 75$  and verify the answer.
- (d) Test if 871 is divisible by 13 or not.  $1+1+2+2=6$

UNIT—I

2. Write the table of 58 using Vinculum method. 5
3. (a) Multiply 371 by 432 (using Urdhva-tiryagbhyam).
- (b) Evaluate  $52 \times 54$  (using concept of base/sub-base). 3+2

## UNIT—II

4. (a) Use Duplex Method to evaluate  $(43)^2 + (62)^2$ .  
(b) Divide 368 by 9 to find quotient and remainder.  $3+2$
5. (a) Find  $\sqrt{625}$  by duplex method.  
(b) Find the cube root of 3375.  $2\frac{1}{2}+2\frac{1}{2}=5$