



RAN - 2503000504063003

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S. Y. B. Sc. (Sem. - IV) Examination April - 2025

MH-SEC-403 : Fundamental of Vedic Mathematics - IV

[Total Marks: 25

सूचना : / Instructions

(1)

नीचे दृष्टाविले निशानीवाणी विगतो उत्तरवली पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

S. Y. B. Sc. (Sem. - IV)

Name of the Subject :

MH-SEC-403 : Fundamental of Vedic Mathematics - IV

Subject Code No.: **2503000504063003**

Seat No.:

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Student's Signature

- (2) All questions are compulsory.
- (3) Figures to the right indicate marks of the questions.
- (4) Follow usual notations and conventions.

Q. 1. Answer any FIVE from the following questions.

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1. Find the duplex of 55.
2. If $A) 4, 3, 5$ and $B) 12, 5, 13$ find a triple for $A - B$.
3. Find the equation of the line through $(6, 5)$ and $(4, 1)$.
4. Write the duplex formula of 3-figure numbers.
5. Given $A) 3, 4, 5$ find the triple for $-A$.
6. In which digits square numbers can only end?

Q. 2. Attempt any TWO.

10

1. Square the following:
i. $(3x+5y)$, ii. $(2x-1)$
2. Find the square root of 784.
3. Squaring the following from left to right:
i. 234^2 , ii. 43^2

Q. 3. Attempt any TWO.

10

1. If $A) 12, 5, 13$, $B) 5, 12, 13$ and $C) 3, -4, 5$ find a triple for
 - i. $A - B$,
 - ii. $2C - B$.
 2. Given the points $(17, 12)$ and $(10, 7)$, find the values of x corresponding to $y = 10$.
 3. Find
 - i. $(2+3i)(1+i)$,
 - ii. $\frac{4+3i}{12+5i}$
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