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SECOND YEAR (B.Sc.)
MAT24404: Vedic Mathematics
(Semester IV)

Program: BSc Gen03
Program Specific: B.Sc.
Course Type: SEC
Paper: --

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) **Use of calculator NOT allowed.**

SECTION: A

Q1) Choose the correct option for the following question: [5 X 1= 5]

1. $99999999 \times 9 =$
a) 8999999991 b) 89999991 c) 8999999991 d) 89999991
2. $94 \times 97 =$
a) 9118 b) 9218 c) 9228 d) 9318
3. $45 \times 89 =$
a) 4005 b) 5005 c) 3005 d) 6005
4. $46863 \times 11 =$
a) 715493 b) 515493 c) 815493 d) 615493
5. $814 \times 754 =$
a) 623756 b) 713756 c) 723756 d) 613756

SECTION: B

Q2) Attempt any TWO of the following. [2 X 5 =10]

1. Write the Tables of
a) 7349 b) 99734
2. By using Duplex method find the square of
a) $(5391)^2$ b) $(7351)^2$
3. Solve the problems.
a) $672728437 \div 25$ b) $89827384 \div 125$

SECTION: C

Q3) Attempt any *THREE* of the following.

[3 X 5 = 15]

1. Find :

a) $\sqrt[3]{592704}$

b) $\sqrt[3]{110592}$

2. Calculate the compound interest on a principal amount of ₹4,000 at an annual interest rate of 4% compounded annually for 3 years. Also find the total amount after 3 years?
3. Construct a 5x5 magic square where the numbers 1 through 25 are arranged such that the sum of each row, column, and diagonal is the same.
4. Is 23793102 divisible by 81? Justify your answer using proper method.
