

morning 13/03/2023

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1176 **D**

Unique Paper Code : 6967001020

Name of the Paper : Vedic Mathematics 1

Name of the Course : **Value Addition Course (VAC)**

Semester : I

Duration : 1 Hour

Maximum Marks : 30

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Question No. 1 is compulsory.
3. Answer any **two** questions from question nos. 2 to 4.
4. **All** questions carry equal marks.
5. Use of calculator is not allowed.
6. Mention the Vedic Mathematics *Sutra* and *Subsustra* used to solve the questions

1. Attempt any **four** of the following :

(i) _____ \div 111 = 234

(ii) _____ + 9843 = 10045

P.T.O.

(iii) $8765 \times 9999 = \underline{\hspace{2cm}}$

(iv) $105^2 = \underline{\hspace{2cm}}$

(v) Convert $234\underline{6}3\underline{5}$ (Vinculum number) = $\underline{\hspace{2cm}}$
(Normal number)

2. (a) Arun's office is $\frac{9}{15}$ km away from home. He covered $\frac{1}{5}$ km walking and the remaining distance by a car. How far did he travel by car?

- (b) Mayra went to the grocery shop to buy oranges. She realized that each bag of oranges contained 99 pieces. She bought 21 bags of oranges. How many oranges did she buy in total?

3. (a) Solve the following :

(i) $108^3 = \underline{\hspace{2cm}}$

(ii) $\sqrt{3249} = \underline{\hspace{2cm}}$

- (b) Explain the concept of circling a square using the *Baudhayana Shulbasutra* method.

4. (a) Solve the following :

(i) $64575 + 34678 + 43568 = \underline{\hspace{2cm}}$

(ii) $112 \times 15 = \underline{\hspace{2cm}}$

- (b) Explain the concept of *Baudhayana Shulbasutra* for finding the square root of 2.