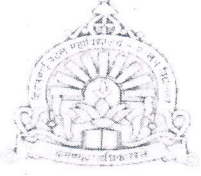


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A Charutar Vidya Mandal's Institution

V.P. & R.P.T.P. SCIENCE

COLLEGE(AUTONOMOUS) (Grant-in-Aid)

Affiliated to Sardar Patel University

VALLABH VIDYANAGAR-388120



Bachelor of Science (Semester III) Internal Examination - 2025

US03KBSC11: Vedic Mathematics

Date: 22/09/2025

Day: Monday

Time: 02:45pm to 3:45pm

Total marks :20

Calculators are not permitted in the examination hall.

Q-1

Write the most appropriate answer from the following multiple-choice questions.

[06]

- 1 Which is the first sutra of Vedic Mathematics?
(a) Ekadhikena Purvena (b) Nikhilam Navatashcaramam Dashatah
(c) Urdhva tiryagbyham (d) Yaavadunam
- 2 Swami Bharti Krishna Tirthji was Shankaracharya of....
(a) Dwarka Peeth (b) Govardhan peeth
(c) Jyotirmath (d) Kanchi Kamakothi peeth
- 3 According to Aryabhat the length of year is....
(a) 365 days (b) 365 days 15 hours 31 minutes 30 seconds
(c) 365 days 6 hours (d) 364 days 23 hours
- 4 The digit sum of 379924 is
(a) 8 (b) 0
(c) 7 (d) 9
- 5 is sub base whose main base is 1000.
(a) 100 (b) 10
(c) 2000 (d) none
- 6 $789 \times 999 = \dots\dots\dots$
(a) 788211 (b) 787211
(c) 789211 (d) 789201



Q-2 Write a short note on mathematician "Aryabhata".

[07]

OR

Q-2 Write a short note on mathematician "Srinivasa Ramanujan".

[07]

Q-3

- 1) Find 39×87 using Urdhva Tiryagbhyam. Verify answer using digit sum.
- 2) Find $(35)^2$ and $\sqrt{1089}$.

[07]

OR

Q-3 Attempt Any two.

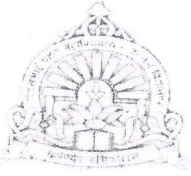
[07]

- 1) Which vedic sutra is useful to find 234×999 . Hence find it.
- 2) Find $(44)^3$ and $\sqrt[3]{140608}$.
- 3) Solve $x + 3y = 10, 3x + y = 5$.

शुभमस्तु

No of printed pages: 01 Supervisor sign.....

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Bachelor of Science (Semester III) Internal Examination Quiz - 2025
US03IKBSC11: Vedic Mathematics

Date: 22/09/2025

Day: Monday

Obtained marks:

Time: 2:45pm

Total marks :05

Q-1 Fill in the blanks with appropriate answer given in the bracket.

1. 1. Who is known as the founder of Vedic Mathematics?

Ans:.....

{Bhaskaracharya, Swami Bharati Krishna Tirthaji, Srinivasa Ramanujan}

2. Which of the following is not a benefit of Vedic Mathematics?

Ans:

{ Speed, Accuracy, Complexity}

3. What is $(55)^3$?

Ans:.....

{166375,167375,160375}

4. The Sutra "Ekadhikena Purvena" is mainly used for Squaring numbers ending with 5.

Ans: True False

5. The Vedic Sutra "Bhavana" is used to find general multiplication.

Ans: True False



Signature of Examiner: