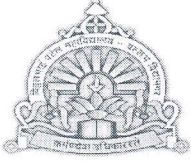


Seat. No.....



A CharutarVidyaMandal'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 3) External Examination - 2025
US03IKBSC11: Vedic Mathematics

Date: 04-10-2025, (Saturday)

Time: 02:00 PM to 03:30PM(1.5 HRS.) Total marks: 25

Calculators are not permitted in the examination hall.

Q-1 Write the most appropriate answer from the following multiple-choice questions.[05]

- 1 What is the meaning of the Vedic sutra 'EkadhikenaPurvena'?
- (a) By one less than the previous one (b) By one more than the previous one
- (c) All from 9 and the last from 10 (d) The ultimate subtraction
- 2 Vedic Maths is derived from which ancient text....
- (a) Mahabharata (b) Rigveda
- (c) Ramayana (d) Atharvaveda
- 3 93^3 is....
- (a) 807357 (b) 804357
- (c) 804337 (d) 805357
- 4 The digit sum of $\sqrt{7744}$ is
- (a) 4 (b) 8
- (c) 7 (d) none
- 5 is the main base whose sub base is 1500.
- (a) 2000 (b) 100
- (c) 1000 (d) none



- Q-2 1. Write a short note on mathematician "ShrinivasRamanujan". [05]
2. Explainनिखिलम्नवतश्चारमदशतः (Nikhilamnavashchramdashatha) sutra. [05]
(Meaning, Use and example)

OR

- Q-2 1. Write a short note on mathematician "Aryabhata". [05]
2. Explainएकाधिकेनपूर्वेणः(Ekadhikenpurvena) sutra. (Meaning, Use and [05]
example)

- Q-3 1. Find 18×33 using उर्ध्वतिर्यग्भ्याम् (Urdhvatiiryakbhyam) sutra. Verify answer using [05]
digit sum. [05]

2. Find $(95)^2$ and $\sqrt{5929}$. Also verify using digit sum.

OR

- Q-3 1. Find $(72)^3$ and $\sqrt[3]{17576}$. Also verify using digit sum. [05]
2. Solve $2x + 5y = -7$, $5x + 2y = 14$. [05]

.....