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**School of Basic Sciences**

Bachelor of Science Honours in Mathematics

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 50

**Sem III - C1UC306T - Vedic Mathematics**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator***CALCULATORS ARE NOT ALLOWED**

- 1) Explain method of addition using suitable example. K2 (2)
- 2) Find  $322+422-277$  by appropriate Vedic sutra. K1 (3)
- 3) Estimate the vinculum number of 19 and 971. K2 (4)
- 4) Convert 17187 to vinculum form. K2 (6)
- 5) Convert vinculum number (i)  $4\bar{6}$  (ii)  $10\bar{33}\bar{1}$  K3 (6)
- 6) Prepare a multiplication table for 87 using vinculum number. K3 (9)
- 7) Calculate the value of 16792976399823 in vinculum form. K4 (8)
  
- 8) Evaluate the following by vedic sutra: (1)  $112*109$  (2)  $115*98$ . K4 (12)

**OR**

- Evaluate the following by vedic sutra: (1)  $102*119$  (2)  $103*78$ . K4 (12)