# M A DEGREE (CSS) EXAMINATION, NOVEMBER 2023

## Third Semester

Faculty of Language and Literature

M A SANSKRIT SPECIAL (VEDANTA)

## CORE - SA040305 - COMPUTATIONAL SANSKRIT FOR VEDANTA-NATURAL LANGUAGE PROCESSING

2019 ADMISSION ONWARDS

48FA737B

Time: 3 Hours                                                                    Weightage: 30

### Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What are the six levels Natural Language ?

2. Give a brief history of NLP

3. Write a note on Machine translation in India and abroad ?

4. What are the two types of Morphemes?

5. What is Topic Modeling?

6. What is the nature of Indian script?

7. What are the different types of tagging?

8. The assumptions of Indian school of thought on word meaning.

9. What are the difficulties of MT?

10. Give brief summary of grammar – based and non – grammar – based Sanskrit computational tools.

(8×1=8 weightage)

### Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Write about Linguistics issues in NLP

12. Describe Morphology .

13. Explain Morphological Analyser.

14. Explain Morphological Generators.

15. Define transliteration scheme

16. Explain ISCII.

17. Summarise the main differences between two prominent schools of Mimamsakas.

18. Briefly summarize the computational concepts in Astadyayi.

(6×2=12 weightage)

### Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain Machine Translation.

20. Briefly explain the Encoding schemes in computer networks.

21. Explain the Vyanjana vyapara and its socio cultural aspects.

22. Describe the history of MT and different approaches on it.

(2×5=10 weightage)