

QP CODE

Enrollment Number:

M2045

Name:

MA DEGREE EXAMINATIONS, OCTOBER 2025

First Semester

M.A. Sanskrit Language and Literature

M23SN01AC – Computational Sanskrit

(Supplementary/Improvement)

(2023 July admissions)

Time: 3 Hours

Max Marks: 70

Section A

Answer any five of the following questions in two or three sentences each. Each question carries 2 marks.

1. Write a note on the formation of verbs and tense in Sanskrit Language.
2. What is Electronic resources and give two examples?
3. Write the features of Intelligent Script Manager(ISM).
4. Write a note on DTP in Sanskrit.
5. What is Part of Speech Tagging and Give one example from Sanskrit?
6. Define Artificial Intelligence and mention two applications in Sanskrit Language Processing.
7. Define semantic analyses and mention two methods.
8. Write a note on Panini's Ashtadhyayi.

(2X5=10)

Section B

Answer any six of the following questions in one page each. Each question carries 5 marks.

9. Explain Samsaadhini and its features.
10. Brief note on Sanskrit Literary Database.
11. Explain Sanskrit e-resources and their significance in digital approaches to Sanskrit learning and research.
12. Explain Intelligent Script Manager software in enhancing digital processing of Indic scripts.
13. Explain the role of Unicode in the digital representation of Sanskrit and how it facilitate the use of Sanskrit fonts.
14. Explain the significance of Natural Language Processing.

15. Discuss the role of NLP tasks in enhancing the accessibility, interpretation and preservation of Sanskrit Language Resources.
16. Explain syntactic analysis and their relevance in processing Sanskrit text.
17. Describe the theory of Karaka and its six types.
18. Explain the concept of Optical Character Recognition (OCR) and discuss the development of OCR specifically for Sanskrit Language.

(5X6=30)

Section C

Answer any two of the following questions in two pages each. Each questions carries 15 marks.

19. Examine the applications of Artificial Intelligence in Sanskrit Language processing?
20. Write an analytical essay on Pāṇini's *Aṣṭādhyāyī*, highlighting its structure, linguistic features, and relevance in the study of Sanskrit grammar?
21. Explain the role of computational tools and evaluate the major toolkit and platforms for linguistic analysis?
22. Explain and critically assess the role of Online Resources and digital tools in the development of Computational Sanskrit?

(15X2=30)