

**BANKURA UNIVERSITY**

**B.A. Semester VI Examination 2021**

**Subject Name – Sanskrit**

**Course ID: 60916**

**Course Code – AHSNS604/DSE- 3**

**Course Title – Vyākaraṇa**

**Full Marks – 40**

**Time – 2 Hours**

**1. Answer any ONE among the followings.**

**10X1=10**

What is the role of Linguistics, and AI in Computational Linguistics?

Or

Write a note on 'Language Computing Survey in India'.

Or

Write a detailed note on how does Pāṇini's grammar help Computational Linguistics.

**2. Answer any FOUR among the followings.**

**5X4=20**

- a) Write a note on POS Tagging.
- b) Write a note on semantic ambiguity.
- c) Write a note on Affixation.
- d) How does machine would break the word 'रामावतारः' following the *Sandhi* rules?
- e) Write a note on Anusaraka.
- f) Write a note on e-learning.
- g) Write a note on Chomsky's hierarchy.

**3. Answer any five among the following.**

**2X5=10**

- a) What is Computational Linguistics?
- b) What is Machine Translation?
- c) What is Speech Recognition?
- d) What is chunking?
- e) Name a pioneering scientist of Computational Linguistics.
- f) Do a morphological analysis of the word 'क्रीडति'।
- g) Do a morphological analysis of the word 'रामः'।
- h) Give an example of the application of computational lexicography of Sanskrit language.