

B. A. 6th Semester (Honours) Examination, 2021

Subject: Sanskrit

Course Code – AHSNS604/DSE- 4

Course ID: 60917

Course Title – Vyākaraṇa

Full Marks – 40

Time– 2 Hours

The figures in the margin indicate full marks.

- 1) **Answer *any one* of the following questions.** **10X1=10**
 - a) What is computational morphology? Explain it with its applications.
 - b) Explain the architecture of database system.
 - c) What is the relation between formal grammar and computational linguistics? Explain it with examples.
- 2) **Answer *any four* of the following questions.** **5X4=20**
 - a) Explain Speech synthesis with reference to Sanskrit.
 - b) Write a note on Turing machine.
 - c) Write a note on text summarization.
 - d) What is Unicode? Write a short note about it.
 - e) Building a parser for Sanskrit text is a challenging task. Why?
 - f) What are the difficulties in Indexing Sanskrit Texts?
 - g) Write a note on programming languages.
- 3) **Answer *any five* of the following questions.** **2X5=10**
 - a) What is Natural language Processing (NLP) ?
 - b) What is Complexity?
 - c) What is Name entity recognition?
 - d) What do you understand by pre –processing?
 - e) What do you understand by anaphor resolution?
 - f) What is language divergence?
 - g) What do you understand by statistical NLP?
 - h) How far computational linguistics help us in our daily life?