Reg. No. : | | | | | | | | | | | |

Question Paper Code:U1904

Ph.D. COURSE WORK EXAMINATION, NOV 2023

Elective

Computer Science and Engineering

21PCS504- NATURAL LANGUAGE PROCESSING

(Regulations 2021)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) What is NLP? List and explain the application of NLP?   CO1- U   (20)

Or

   (b) Briefly explain the various levels of Natural Language Processing?   CO1- U   (20)

2. (a) Apply the concept of semantic analysis in social media based data   CO2- App   (20)
   for knowledge Discovery.

Or

   (b) Apply the concept of semantic analysis in the real time processes   CO2- App   (20)
   like automated handling of customer grievances for business
   management.

3. (a) Discuss in detail the syntactic & Semantic constraints on   CO1- U   (20)
   Conference.

Or

   (b) Write short notes on: CO1- U   (20)
   (i) Grammars
   (ii) Case grammars
   (iii) Symantec grammar
   (iv) Syntactic grammar

4. (a) Analyze the naive Bayes classifier approach to Word Sense   CO3-Ana   (20)
   Disambiguation in NLP.

Or

   (b) Analyze statistical techniques be used to perform the task of   CO3-Ana   (20)
   machine translation? If so, explain in brief.

5. (a) Explain the architecture of an Information Retrieval system with a neat Diagram.   CO1- U   (20)

Or

(b) Briefly discuss about the Markov Decision Process Architecture with neat Diagram.   CO1- U   (20)