**A.Y 2023-24**

**Natural Language Processing**

**ASSIGNMENT I IMP QUESTIONS**

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| **S.No** | **Question** | **CO** | **BTL** |
| 1. | Compute the minimum edit distance between intention and execution using the minimum edit distance algorithm. | CO1 | Analyze |
| 2. | How Text wrangling and Cleansing are performed by using NLTK. | CO1 | Apply |
| 3. | Explain how the Stop word removal and Rare word removal are performed using NLTK with examples. | CO1 | Understand |
| 4. | Write a short notes on Word Normalization, Lemmatization and Stemming | CO1 | Understand |
| 5. | Construct a regular expression for the following languages  i) The set of all alphabetic strings.  ii) The set of all lowercase alphabetic strings ending in a ‘b’.  iii) The set of all strings with two consecutive repeated words.  iv) The set of all strings from the alphabet a,b such that each a is immediately preceded and immediately followed by a ‘b’. | CO1 | Apply |
| 6. | Explain in detail about basic regular expression patterns | CO1 | Understand |

**ASSIGNMENT II IMP QUESTIONS**

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| **S.No** | **Question** | **CO** | **BTL** |
| 1. | Identify the categories of English word classes and explain in detail. | CO3 | Understand |
| 2. | Parse the sentence “Book the flight through Houston” using CKY algorithm | CO3 | Analyze |
| 3. | Describe Hidden markov model with suitable example | CO3 | Understand |
| 4. | Construct suitable example for grammar equivalence and normal form. | CO3 | Apply |
| 5. | Discuss in detail about Context Free Grammars | CO3 | Understand |
| 6. | Write a short notes on Named Entity Tagging | CO3 | Understand |