| | DR. BABASAHEB AMBEDI W | inter Examination – 2 | | , | |
|------------|--|---|----------------------------------|-----------------------|----------|
| | Course: B. Tech. Branch: CSE Semester:VII | | | | |
| | Subject Code & Name: BTCOI | | | nester . VII | |
| | Max Marks: 60 | Date: 01/02/2023 | Duration: 3 | l Hr | |
| | Instructions to the Students: | Dutc.01/02/2025 | Duration: c | , 111. | |
| | All the questions are composition. The level of question/experiments which the question is based. Use of non-programmable. Assume suitable data when. | ected answer as per OB ed is mentioned in () in e scientific calculators | front of the ques is allowed. | tion. | |
| 0.1 | Calva Any True of the following | | | (Level/CO) | Ma |
| Q. 1 A) | Solve Any Two of the following | | -9 C! | D | |
| | What is speech processing in NLP? How does it work? Give different applications of speech processing. | | | Remembering | |
| B) | Explain ArgMax() based comp | | rata using 1) | Understanding | |
| D) | | | rate using 1) | | |
| C) | Single class. 2)Multiclass on cla | | o I ist its | / Applying Understand | |
| C) | Explain Hidden Markov Model | i with suitable exampl | e. List its | /Evaluate | |
| | applications. | | | /Evaluate | |
| Q.2 | Solve Any Two of the following | | | | |
| A) | Show working of NER with appropriate example. | | Understanding | | |
| B) | Illustrate maximum entropy pr | inciple formula with o | example. | Understanding/ | |
| | | | | Applying | |
| C) | What is morphological analysis | ? Explain pre-process | sing steps | Remembering | |
| Q. 3 | Solve Any Two of the following | | | | |
| A) | What is parsing? Explain chun | | | Remembering | |
| B) | What is a language model? Wr | | nguage model. | Remembering/ | |
| , | | | 5 5 | Applying | |
| C) | Write short note on Hybrid of 1 | Rule Based and Proba | bilistic | Understanding | |
| | Parsing | | | | |
| | <u>-</u> | | | | |
| Q.4 | Solve Any Two of the following | • | | | |
| A) | What is a metaphor in NLP? L | ist its types and uses | | Remembering | |
| B) | With example explain creation | of SynSet in wordnet. | | Understanding/ | |
| | | | | Creating | |
| C) | What is wordnet? Explain WSI | D • TT7 I 4 | | Understanding | † |

| Q. 5 | Solve Any Two of the following. | | 12 |
|------------|---|---------------|----|
| A) | What is textual entailment in NLP? Apply it on question answering | Remembering/ | 6 |
| | application and simplify its working with suitable example. | Applying/ | |
| | | Analysing | |
| B) | Write a short note on importance of sentiment analysis. | Remembering | 6 |
| C) | What is information retrieval in NLP? Explain cross lingual | Understanding | 6 |
| | information retrieval [CLIR] in brief. | | |
| | *** End *** | | |