Total No. of Pages\_02\_ Subplementary
END-SEMESTER EXAMINATION \_Seventh\_\_ SEMESTER Q.1 Explain the following terms in brief with an example IT-425 NATURAL LANGUAGE PROCESSING Q.3 Given the following grammar and lexicon for generating sentences: Q.2 Demonstrate using an example for test and training corpus, the application of different distance and similarity formulae used to Note: Answer any five questions.
Assume suitable missing data, if any. Time: 3:00 Hours d) Phonetics c) Morphology b) Auxiliary verbs a) Word sense disambiguation e) WORDNET classify text in the test corpus. 2. NP→Name 5.VP→V 3. NP→DetN 6.VP→VNP S→NP VP 4. NP→Det Adj N. N→cat|fish|man V→ate|cried Name→Jack Max. Marks: 50 Roll No. ..... Adj⇒old|small Det⇒The Feb-2019 B.Tech [ IT ] (Reappear) (2x5)Q.7 Explain the following in detail [a] Logistic regression classifier and how it can be applied to text [b] Any one modern application of NLP Describe each with relevant formulae. with an example.

Demonstrate Top-Down parsing in tabular form for the sentence "The small fish cried the old man"

4 What are bigram, unigram and trigram? Explain using examples how they could help in the classification of text for sentiment analysis.

), 5 a) What is Augmented Transition Network (ATN)? Describe its use

b) What are the different features that could be extracted from text. (5+5)

. 6 a) Describe unification of features using suitable example.

b) What is probabilistic CFG. Explain using an example.

(5+5)

(5+5)