**WORKSHEET-3**

**NLP**

1. Which of the following reduce a word to its base form by cutting off the suffix?

Answer: B) Porter Stemmer C) Snowball Stemmer

2. We need to perform stemming and lemmatization so that:

Answer: A) All the words can be reduced to their base form

3. Stemming and Lemmatization belongs to which of the following step in NLP?

Answer: D) All of the above

4. Which of the following is/are example of shallow parsing?

Answer: A) POS tagging

5. Which of the following are true regarding Lexicon Based taggers?

Answer: D) All of the above

6. Which of the following taggers uses predefined rules to assign tags?

Answer: C) Rule Based Taggers

7. Which of the following is /are true regarding HMM based POS tagger?

Answer: B) It uses tag of only the previous word to determine the tag of the current word.

* 1. C) It assigns tag by finding the most frequent tag occurring for that word in the training corpora

8. What does the transition probability refer in to HMM bases POS tagging algorithm?

Answer: B) Transition probabilities refer to the probability of emitting a given word from a tag.

9. Which of the following are terminal symbols in the following Context-Free Grammar?

Answer: C) VP D) NP

10. In which of the cases Hidden Markov Model can be used?

Answer: A) Modeling a Sequential process B) POS tagging

11. Which of the following is/are used to get the grammatical construction of the sentence?

Answer: C) Top-Down Parsing D) HMM based POS tagging

12. Which of the following are the approaches of constituency parsing?

Answer: C) Dependency Parsing

13. Which of the following is true regarding Top-Down parsing?

Answer: B) we use the CFG production rule to generate the sentence from the S start symbol

14. Which of the following statements are true regarding shift reduce parser algorithm?

Answer: D) All of the above

15. Which of the following are true regarding Chomsky Normal Form?

Answer: C) A CFG with no terminal symbol is called Chomksy Normal Form.

16. In Which of the following text processing technique we will remove stopwords as a preprocessing?

Answer: D) All of the above