1. Which of the following are steps in NLP?

Ans:- Lexical Processing , Syntactic processing, Semantic processing

1. Which of the following tasks can be completed with only lexical processing?

Ans :- Spam- Ham classification, Chat-Bot building, Question- Answering system .

1. Which of the following are steps in lexical processing?

Ans:- Breaking the text in to words B) Removing Stopwords

1. Which of the following tokenizers are available in NLTK?

Ans:- word\_tokenize() B) sent\_tokenize() C) list\_tokenizer()

5. What will be the output of the following lines of code? from nltk.tokenize import word\_tokenize doc = “I love #food #pasta” print( word\_tokenize(doc))

Ans:- error

6. What will be the output of the following lines of code? from nltk.tokenize import TweetTokenizer tknz = TweetTokenizer() doc = “I love #food #pasta” print( tknz.tokenize(doc))

Ans:-error

7. Which of the following is/ are true regarding to stopwords?

Ans:- Since the frequency of stopwords is very high, removing stopwords results in a much smaller data.

removing stopwords results in faster computation.

8. In which of the NLP tasks we can remove stopwords?

Ans:- spam-ham classifier building

9. which of the following is/are true regarding bag of words model of text?

Ans:- It takes in to consideration of only the words present in the text and not the order of the words. B) It takes in to consideration both the words present as well as the order of the words.

10. Consider the following two documents we create a bow representation using Count Vectorizer of NLTK library. What will the shape of the resultant data? from sklearn.feature\_extraction.text import CountVectorizer Doc1 = "HE love python" Doc2 = "HE love eating healthy" vectrz = CountVectorizer() Bow\_array = vectrz.fit\_transform([Doc1, Doc2]) print(Bow\_array.shape)

Ans:- (2,5)

11. Which of the following are true regarding Tf-Idf?

Ans:- All the words are treated equally regardless of whether they are present in other documents or not

Document1: "Vapour, Bangalore has a really great terrace seating and an awesome view of the Bangalore skyline" Document2: "The beer at Vapour, Bangalore was amazing. My favorites are the wheat beer and the ale beer." Document3: "Vapour, Bangalore has the best view in Bangalore." Please remove the stopwords from the above documents before answering the below questions: 12. What will be the tf-idf score of word “Bangalore” in Document 1?

Ans:- 0.2

13. What will be the tf-idf score of the word “beer” in document 2?

Ans:- 0.25

14. Which of the following statements are true regarding the above documents?

Ans:- The tf-idf score of “vapour” is greater than tf-idf score of “Bangalore” in document 1

15. Which of the following are advantages of using tf-idf model over BOW model?

Ans;- The bow model gives equal importance to all the words while tf-idf model gives more importance to those words in a document which occurs exclusively only I this document .