QUIZ TOPIC - NATURAL LANGUAGE PROCESSING

1. **Natural Language processing is used in-**

- A. Text classification ✖
- B. Topic modeling ✖
- C. Chatbots ✖
- D. All of the above ✔

2. **Which of the follwing is an appication of NLP?**

- A. Summarizing a text or article ✖
- B. Predicting the genre of books
- C. Speech recognition
- D. All of the above ✔

3. **Which of the following library is used in NLP?**

- A. NLTK
- B. sklearn
- C. pandas
- D. All of the above ✔

4. **What is tokenization?**

- A. Breaking sentences into words
- B. Creating a set of vocabularies
- C. Removing stopwords
- D. All of the above ✔

5. **Why we use named entity recognition in NLP?**

- A. Classify entities into predefined labels ✔
- B. Creating a set of vocabularies ✖
- C. Breaking sentences into words ✖
- D. None ✖

6. **What is machine translation?**

- A. Converting a human language to another ✖
- B. Converting a human language to machine language ✔
- C. Converting any human language to English ✖
- D. None

7. **Google translator is an application of-**

- A. Sentiment analysis ✖

- ○ B. Information extraction ✖
- ○ C. Information retrieval ✖
- ◉ D. Machine translation ✔

8. **Which of the following is the main challenge of NLP?**

- ○ A. Handling ambiguity of documents ✖
- ○ B. Handling POS tagging ✖
- ○ C. Handling tokenization ✖
- ◉ D. All of the above ✔

9. **A bag of words model uses-**

- ○ A. A vocabulary of known words ✖
- ○ B. A measure of the presence of known words ✖
- ◉ C. Both A and B ✔
- ○ D. None

10. **Which of these techniques is used for normalization in text mining?**

- ○ A. Stemming ✖
- ○ B. Stop words removal ✖
- ○ C. Lemmatization ✖
- ◉ D. All of the above ✔

11. **What stemming refers to in text mining?**

- ○ A. Reducing a word to its root ✔
- ◉ B. Defining the parts of speech of a word ✖
- ○ C. Converting sentences to words
- ○ D. None

12. **Which is the correct order for preprocessing in Natural Language Processing?**

- ◉ A. tokenization->stemming->lemmatization ✔
- ○ B. lemmatization->tokenization->stemming
- ○ C. stemming->tokenization->lemmatization
- ○ D. None

13. **Bag of Words in text preprocessing is a-**

- ○ A. Feature scaling technique ✖
- ○ B. Feature extraction technique ✔
- ◉ C. Feature selection technique ✖
- ○ D. None

14. **In text mining, how the words 'lovely' is converted to 'love'-**

- ○ A. By stemming ✔
- ◉ B. By tokenization ✖
- ○ C. By lemmatization
- ○ D. None

15. **Stop words are-**

- ○ A. words that frequently found in a document ✖
- ○ B. words that have no use in prediction ✖
- ○ C. words that are not important for text mining ✖

- (●) D. All of the above ✔

16. **Which of the following algorithms is widely used for text classification?**

- ( ) A. Decision tree ✖
- ( ) B. Support vector machine ✖
- ( ) C. Naive Bayes ✖
- (●) D. All of the above ✔

17. **From the sentence "Ai Online Course", how many bigrams can be created?**

- ( ) A. 2 ✔
- (●) B. 3 ✖
- ( ) C. 4
- ( ) D. 5

18. **Sentiment analysis is an area of:**

- ( ) A. Computer vision ✖
- ( ) B. Natural language processing ✔
- (●) C. Data analysis ✖
- ( ) D. Data mining

19. **Which of the following is true about Topic Modelling?**

- ( ) A. It's a natural language processing task ✖
- ( ) B. It is unsupervised learning ✖
- ( ) C. LDA(latent Dirichlet allocation) can be used ✖
- (●) D. All of the above ✔

20. **Which of the following is used to reduce the dimensionality of text data?**

- ( ) A. Keyword Normalization
- ( ) B. Latent Dirichlet Allocation
- ( ) C. Latent Semantic Indexing
- (●) D. All of the above ✔

21. **What is the role of NLP in recommendation engines like Collaborative Filtering?**

- ( ) A. Extracting features from text
- ( ) B. Measuring semantic similarity
- ( ) C. Constructing feature vector
- (●) D. All of the above ✔

22. **Which of the following is the feature of a text corpus?**

- ( ) A. Count of the word
- ( ) B. Part of speech tag
- (●) C. Both A and B ✔
- ( ) D. None

23. **Word2vec is used to-**

- (●) A. Generate vectors out of words ✔
- ( ) B. Represent a document numerically ✖
- ( ) C. Make a set of vocabularies ✖
- ( ) D. None ✖

24. **tf - idf is used in-**

- ○ A. Sentiment analysis ✖
- ○ B. Topic modeling ✖
- ○ C. Text summarization ✖
- ◉ D. All of the above ✔

25. **Which of the following algorithm is not used in NLP?**

- ○ A. Naive Bayes ✖
- ○ B. BERT ✖
- ○ C. Convolutional Neural Networks ✖
- ◉ D. None ✔

26. **Convolutional Neural Network is used in-**

- ○ A. Image classification ✖
- ○ B. Text classification ✖
- ○ C. Computer vision ✖
- ◉ D. All of the above ✔

27. **tf - idf represents-**

- ○ A. How important a word is to a document in a collection or corpus
- ○ B. Where to find a word in a document
- ○ C. The length of a document
- ◉ D. All of the above ✔

28. **tf - idf is used in-**

- ○ A. Page ranking by search engines
- ○ B. Processing texts for ML models
- ◉ C. Both A and B ✔
- ○ D. None

29. **Sentiment analysis is used to-**

- ○ A. detect polarity of a text ✖
- ○ B. detect the impact of a text ✖
- ○ C. Both A and B ✖
- ◉ D. None ✔

30. **Which of the following is a kind of text summarization?**

- ○ A. Topic-based summarization ✖
- ○ B. Extraction-based summarization ✔
- ◉ C. History-based summarization ✖
- ○ D. All of the above