- 1. Which of the following is NOT a definition of language?
- a) A system of communication
- b) A biological entity
- c) A form of thought
- d) A collection of words
- 2. Language is considered a dynamic system because it:
- a) Changes over time
- b) Remains static
- c) Is a fixed set of rules
- d) Is only used in formal contexts
- 3. Which theory suggests that language is innate and human beings are born with the capacity for grammar?
- a) Behaviourist theory
- b) Interactionist theory
- c) Nativist theory
- d) Connectionist theory
- 4. Language is regarded as a biological phenomenon because it:
- a) Exists only in human

societies

- b) Has a genetic foundation in the human brain
- c) Is learned socially
- d) Functions through written symbols
- 5. Which of the following is an example of a spoken mode of language?
- a) Text message
- b) Sign language
- c) Audio recording
- d) Written text
- 6. The distinction between language as expression and content was proposed by:
- a) Noam Chomsky
- b) Ferdinand de Saussure
- c) John Searle
- d) Charles Peirce
- 7. Which of the following is a feature of artificial languages (like programming languages)?
- a) Ambiguity
- b) Dynamic syntax
- c) Strict rules and structure
- d) Emotional expression
- 8. Linguistics as a scientific study focuses on:
- a) The artistic creation of language
- b) The analysis of the structure, meaning, and usage of language
- c) The history of language
- d) The learning of foreign languages

- 9. Which of the following best describes a symbolic system in linguistics?
- a) Natural language
- b) Gestures and facial expressions
- c) Computer programming languages
- d) Both a and b
- 10. Which of the following is the primary function of language?
- a) To enable communication
- b) To express emotions
- c) To store memories
- d) To build social relationships
- 11. What does language analysis primarily focus on?
- a) The emotional effects of language
- b) The technicalities of language use in programming
- c) The structure and meaning of language
- d) The social contexts in which language is used
- 12. The paradigmatic relationship in linguistics refers to:
- a) Words that are used together in the same sentence
- b) The substitution of one word for another
- c) The order of words in a sentence
- d) The sounds that words are made up of
- 13. Which linguistic level focuses on the pronunciation of sounds?
- a) Phonetics
- b) Semantics
- c) Syntax
- d) Pragmatics
- 14. Which level of linguistic analysis deals with sentence structure and word order?
- a) Phonology
- b) Morphology
- c) Syntax
- d) Semantics
- 15. The process of deriving meaning from the structure and usage of language is called:
- a) Morphology
- b) Syntax
- c) Semantics
- d) Phonetics
- 16. Which is an example of an Artificial Intelligence (AI) subfield that focuses on understanding human language?
- a) Computer Vision
- b) Machine Learning
- c) Natural Language Understanding
- d) Robotics

- 17. Natural Language Generation (NLG) focuses on:
- a) Understanding text
- b) Creating human-like text
- c) Learning language rules
- d) Parsing sentences
- 18. The main difference between semantics and pragmatics is that:
- a) Semantics deals with word meanings, while pragmatics concerns context-based meaning
- b) Semantics involves word sounds, and pragmatics concerns grammar
- c) Semantics is a subset of pragmatics
- d) There is no difference
- 19. Which of the following is the primary function of Named-Entity Recognition (NER)?
- a) Categorize words by their part of speech
- b) Identify and classify proper nouns and specific terms
- c) Separate text into sentences
- d) Analyze sentence structure
- 20. Lemmatization involves:
- a) Removing unnecessary characters from words
- b) Reducing words to their root forms
- c) Assigning part-of-speech tags to words
- d) Identifying the subject-verb agreement in a sentence
- 21. Which machine learning model is primarily used for sequence data in NLP?
- a) Support Vector Machines
- b) Recurrent Neural Networks (RNN)
- c) Decision Trees
- d) Naive Bayes
- 22. Which type of neural network is particularly useful for processing grid-like data such as images and texts?
- a) CNN (Convolutional Neural Network)
- b) RNN (Recurrent Neural Network)
- c) LSTM (Long Short-Term Memory)
- d) MLP (Multilayer Perceptron)
- 23. Which of the following is NOT a challenge in training deep learning models for NLP?
- a) Vanishing gradient problem
- b) Limited data availability
- c) Interpretability of models
- d) High processing power required for training
- 24. The LSTM (Long Short-Term Memory) network resolves the vanishing gradient problem by:
- a) Adding extra layers
- b) Using self-attention mechanisms
- c) Using gating mechanisms to retain information
- d) Reducing the complexity of the network

- 25. In natural language processing (NLP), what does a lemmatizer do?
- a) Assignsmeaning to a word
- b) Identifies the syntactic structure of a sentence
- c) Converts a word to its base or dictionary form
- d) Identifies the emotional tone of a word
- 26. Which of the following neural networks is best suited for processing sequential data?
- a) CNN
- b) RNN
- c) DNN
- d) GAN
- 27. Which of the following is the main function of sequence-to-sequence (Seq2Seq) models in NLP?
- a) Categorizing text
- b) Translating one sequence to another (e.g., language translation)
- c) Identifying entities in text
- d) Generating summaries from text
- 28. Which neural network architecture is known for its self-attention mechanism in NLP tasks?
- a) RNN
- b) Transformer
- c) LSTM
- d) CNN
- 29. What is the primary advantage of using Transformer networks over RNNs?
- a)Faster processing of sequential data
- b) Better performance on non-sequential tasks
- c) Ability to process sequences in parallel
- d) Improved understanding of semantic meaning
- 30. BERT (Bidirectional Encoder Representations from Transformers) is mainly used for:
- a) Image recognition
- b) Text classification
- c) Language translation
- d) Speech synthesis
- 31. Which of the following technologies enables speech-to-text conversion?
- a) NaturalLanguage Generation
- b) Automatic Speech Recognition (ASR)
- c) Text to Speech (TTS)
- d) Sentiment Analysis

- 32. Which approach in NLP focuses on translating words from one language to another?
- a) Sentiment analysis
- b) Named-Entity Recognition
- c) Machine translation
- d) Text classification
- 33. Which of the following tasks is involved in information retrieval?
- a) Identifying entities in text
- b) Converting text to speech
- c) Searching and retrieving relevant documents
- d) Categorizing a set of documents
- 34. Which model is primarily used for text summarization?
- a) Seq2Seq
- b) Word2Vec
- c) Transformer
- d) LSTM
- 35. In automatic speech recognition (ASR), which of the following is a primary challenge?
- a) Identifying sentiment
- b) Handling different accents and noise
- c) Understanding word meaning
- d) Generating sentences from speech
- 36. Which of the following is a common method for recognizing words in handwritten documents?
- a) Optical Character Recognition (OCR)
- b) Machine Translation
- c) Named-Entity Recognition
- d) Text Summarization
- 37. Which of the following techniques is most used for text-based machine translation?
- a) Neural machine translation (NMT)
- b) Rule-based translation
- c) Syntax-based translation
- d) Statistical translation
- 38. Which NLP task would involve identifying the gender of a person from a name?
- a)Named-Entity Recognition
- b) Gender Prediction
- c) Sentiment Analysis
- d) Text Classification
- 39. Which of the following NLP tools is commonly used for tokenization and POS tagging?
- a) TensorFlow
- b) NLTK
- c) OpenCV
- d) PyTorch

- 40. Which of the following is an essential task for chatbots in NLP?
- a) Speech synthesis
- b) Sentiment analysis
- c) Question answering and dialogue management
- d) Named-Entity Recognition
- 41. Which of the following techniques is used for syntactic parsing in NLP?
- a) Hidden Markov Models
- b) Context-Free Grammar
- c) Word2Vec
- d) Convolutional Neural Networks
- 42. Semantic parsing involves:
- a) Extracting meaning from spoken language
- b) Converting structured data into unstructured data
- c) Extracting relationships and meaning from a sentence
- d) Identifying grammatical errors in a text
- 43. Which NLP technique is used to resolve ambiguity in a sentence by identifying the correct meaning of a word based on context?
- a) Word Sense Disambiguation
- b) Named-Entity Recognition
- c) Tokenization
- d) Dependency Parsing
- 44. Which approach focuses on extracting structured information from unstructured text data?
- a) Information Extraction
- b) Part-of-Speech Tagging
- c) Text Summarization
- d) Named-Entity Recognition
- 45. What is automatic summarization used for in NLP?
- a) Translating languages
- b) Reducing text length while preserving meaning
- c) Identifying entities in text
- d) Identifying the sentiment of the text
- 46. What is anaphora resolution in NLP?
- a) Identifying similar words in a sentence
- b) Resolving ambiguities in word meanings
- c) Disambiguating the relationships between words in a sentence
- d) Identifying which word a pronoun refers to
- 47. Ontology in NLP refers to:
- a) A semantic dictionary of words
- b) The structure of sentences
- c) The study of speech sounds
- d) A formal representation of knowledge

- 48. The semantic web is an extension of the current web, designed to:
- a) Integrate text with multimedia content
- b) Provide human-like interaction with machines
- c) Allow data to be shared and reused across different applications
- d) Use artificial intelligence for content generation
- 49. Which of the following algorithms is most commonly used for information extraction?
- a) Hidden Markov Models
- b) Support Vector Machines
- c) Named-Entity Recognition
- d) Word2Vec
- 50. The main challenge of deep parsing is:
- a) Identifying the sequence of words
- b) Managing a large vocabulary
- c) The complexity of sentence structures
- d) Assigning proper meanings to words
- 51. Which of the following statistical models is based on probabilities of state transitions?
- a) Hidden Markov Models
- b) Support Vector Machines
- c) Naive Bayes
- d) Decision Trees
- 52. Markov models are primarily used for:
- a) Text classification
- b) Language modeling and speech recognition
- c) Named-Entity Recognition
- d) Word embedding
- 53. In text classification, which of the following models is used for grouping similar text documents?
- a) Clustering
- b) Regression
- c) Regression Trees
- d) Naive Bayes
- 54. Which of the following is a common technique for categorizing text into different topics or genres?
- a) Text Classification
- b) Sequence Modeling
- c) Named-Entity Recognition
- d) Word Sense Disambiguation
- 55. Which of the following is the basis for the Centroid-based Classification method?
- a) Dividing text based on its length
- b) Grouping documents by central terms or themes
- c) Training a model with labeled data
- d) Identifying key phrases in text

- 56. Entropy models in statistical NLP are used to:
- a) Measure the uncertainty in a dataset
- b) Classify text based on predefined labels
- c) Learn the meaning of sentences
- d) Organize documents into clusters
- 57. Which of the following is an important concept in statistical parsing?
- a) Assigning words to parts of speech
- b) Reducing the number of words in a sentence
- c) Estimating the probability of syntactic structures
- d) Mapping one word to multiple possible meanings
- 58. What does text categorization aim to achieve?
- a) Grouping text into predefined categories
- b) Generating summaries of the text
- c) Extracting named entities from text
- d) Converting text into speech
- 59. The primary challenge in statistical text classification is:
- a) Creating a large enough labeled dataset
- b) Identifying the order of words in a sentence
- c) Mapping words to their correct part of speech
- d) Converting text into vectors
- 60. Which algorithm is often used in text classification to identify categories based on statistical patterns?
- a) Support Vector Machine
- b) Long Short-Term Memory
- c) K-means clustering
- d) Naive Bayes
- 61. Which of the following best distinguishes Machine Learning (ML) from Deep Learning (DL)?
- a) ML focuses on shallow models, while DL uses deep neural networks
- b) ML is based on simple algorithms, while DL requires large datasets
- c) ML is better for complex tasks than DL
- d) DL focuses on numerical data, while ML focuses on categorical data
- 62. Which of the following deep learning models is commonly used for sequential data like text?
- a) RNN
- b) CNN
- c) GAN
- d) MLP
- 63. Which of the following deep learning architectures is designed to handle long-term dependencies in sequential data?
- a) LSTM (Long Short-Term Memory)
- b) CNN (Convolutional Neural Network)
- c) GAN (Generative Adversarial Network)
- d) MLP (Multilayer Perceptron)

- 64. Which of the following models is used to process sequential data using a simple feedback mechanism?
- a) RNN (Recurrent Neural Network)
- b) CNN (Convolutional Neural Network)
- c) LSTM (Long Short-Term Memory)
- d) GAN (Generative Adversarial Network)
- 65. The most important challenge when training deep learning models for NLP is:
- a)Overfitting to training data
- b) Understanding the syntax of the language
- c) Identifying the sentiment of the text
- d) Reducing vocabulary size
- 66. Which type of neural network is most effective for understanding the context of words in long sentences?
- a) Recurrent Neural Networks (RNN)
- b) Convolutional Neural Networks (CNN)
- c) Transformer Networks
- d) Support Vector Machines
- 67. Which deep learning architecture is known for its self-attention mechanism, which is critical for NLP tasks?
- a) RNN
- b) CNN
- c) Transformer
- d) GAN
- 68. Which of the following models helps to overcome the vanishing gradient problem in RNNs?
- a) LSTM
- b) CNN
- c) Decision Trees
- d) Naive Bayes
- 69. Which machine learning technique is best suited for sentiment analysis?
- a) Decision Trees
- b) Random Forest
- c) Support Vector Machines
- d) Deep Learning Models
- 70. Which deep learning model architecture would you choose for large-scale language modeling tasks?
- a) RNN
- b) LSTM
- c) Transformer
- d) CNN
- 71. What is the first step in text pre-processing for NLP?
- a) Tokenization
- b) Lemmatization
- c) Removing stopwords
- d) Part-of-Speech Tagging

- 72. Which Python library is widely used for processing natural language text?
- a)TensorFlow
- b) OpenCV
- c) NLTK
- d) Matplotlib
- 73. The primary function of spaCy in NLP is to:
- a) Build language models
- b) Preprocess text and perform tokenization, POS tagging
- c) Implement deep learning algorithms
- d) Convert speech to text
- 74. Which of the following is a common challenge during pre-processing data for NLP?
- a) Overfitting the model
- b) Selecting relevant features for modeling
- c) Balancing the dataset for equal representation of categories
- d) Resolving sentence-level ambiguity
- 75. Why is pre-processing important in machine learning for NLP tasks?
- a) To improve model interpretability
- b) To ensure that the model has enough data
- c) To reduce the complexity of the data
- d) To ensure that data is in a format suitable for machine learning models
- 76. What does the "tokenization" process refer to in NLP?
- a) Breaking down a sentence into its grammatical components
- b) Converting text into numerical format
- c) Breaking text into smaller units like words or phrases
- d) Removing stopwords from the text
- 77. Which of the following techniques is used for identifying the base form of a word?
- a) Lemmatization
- b) Stemming
- c) POS tagging
- d) Tokenization
- 78. What is the purpose of Part-of-Speech (POS) tagging?
- a) To identify the sentiment of a sentence
- b) To break down text into sentences
- c) To identify the grammatical role of each word in a sentence
- d) To convert speech to text
- 79. Which of the following methods is used to convert continuous sequences of words into a fixed-size vector representation?
- a) Word2Vec
- b) One-Hot Encoding
- c) GloVe
- d) TF-IDF

- 80. Which of the following deep learning models is best for sequence-to-sequence tasks, like machine translation?
- a) Transformer
- b) LSTM
- c) GAN
- d) RNN
- 81. Which of the following is a key challenge in sequence modeling for NLP?
- a) Handling out-of-vocabulary words
- b) Balancing positive and negative samples
- c) Feature extraction
- d) Handling missing data
- 82. In Word2Vec, the "skip-gram" model tries to predict:
- a) The surrounding words given a target word
- b) A target word given the surrounding words
- c) A word based on its position in a sentence
- d) The grammatical role of a word in context
- 83. Which technique helps to represent a word as a dense vector of real numbers in NLP?
- a) One-Hot Encoding
- b) Word2Vec
- c) N-grams
- d) Bag of Words
- 84. The learning method in Word2Vec is based on:
- a) Supervised learning
- b) Reinforcement learning
- c) Unsupervised learning
- d) Semi-supervised learning
- 85. In a word embedding model, what is the purpose of a word embedding matrix?
- a) To store vocabulary and their corresponding labels
- b) To map words to their one-hot encoded vectors
- c) To map words to continuous vector representations
- d) To cluster words into predefined categories
- 86. Which of the following word representation models uses global co-occurrence statistics of words in a corpus?
- a) Word2Vec
- b) GloVe
- c) One-Hot Encoding
- d) FastText
- 87. Which word representation model is designed to handle out-of-vocabulary (OOV) words better? a) Word2Vec
- b) GloVe
- c) FastText
- d) One-Hot Encoding

- 88. Which of the following is a common application of word embeddings?
- a) Named-Entity Recognition
- b) Sentiment Analysis
- c) Tokenization
- d) Word Sense Disambiguation
- 89. What is the key advantage of using embeddings over one-hot encoding?
- a) Better accuracy in classification tasks
- b) Reduced computational cost due to lower dimensionality
- c) Better handling of synonyms and related words
- d) Improved text summarization capabilities
- 90. Which of the following is used to measure the similarity between word embeddings?
- a) Jaccard Similarity
- b) Cosine Similarity
- c) Euclidean Distance
- d) Hamming Distance
- 91. In a sequence-to-sequence model, what is the main goal?
- a) To predict the next word in a sentence
- b) To translate one sequence of words into another sequence
- c) To classify a document into categories
- d) To generate word embeddings
- 92. Which of the following is a common architecture used for sequence-to-sequence tasks?
- a) RNN
- b) LSTM
- c) GRU
- d) All of the above
- 93. In a Sequence-to-Sequence model, the encoder processes:
- a) The input sequence and encodes it into a fixed-size vector
- b) The output sequence and decodes it
- c) Both the input and output sequences simultaneously
- d) None of the above
- 94. What is the main disadvantage of traditional sequence-to-sequence models?
- a) They require an extremely large dataset
- b) They are unable to handle long-term dependencies effectively
- c) They cannot generate new sequences
- d) They do not use embeddings for word representations
- 95. The Transformer model improves on sequence-to-sequence models by introducing:
- a) Memory cells for storing long-term dependencies
- b) A self-attention mechanism
- c) Bidirectional encoding
- d) Gated Recurrent Units (GRUs)

96. Which of the following is the main advantage of the Transformer model over traditional RNNs?

a) It processes sequences in parallel rather than sequentially

- b) It uses less data for training
- c) It can work without any labeled data
- d) It is easier to train
- 97. Which mechanism in the Transformer model allows it to focus on different parts of the input sequence when processing each word?
- a) Self-Attention
- b) Backpropagation
- c) Bidirectional Attention
- d) Long Short-Term Memory
- 98. Which of the following is a key limitation of the Transformer model?
- a) It cannot handle large datasets
- b) It cannot handle long sequences efficiently
- c) It requires a large amount of computational resources
- d) It is not suitable for sequence-to-sequence tasks
- 99. Which of the following is the main advantage of BERT (Bidirectional Encoder Representations from Transformers)?
- a) It only uses the decoder part of the Transformer
- b) It is pre-trained on a large corpus and fine-tuned for downstream tasks
- c) It generates a single vector for each input token
- d) It performs better on smaller datasets
- 100. BERT's pre-training tasks involve which of the following?
- a) Predicting the

next word in a sequence

b) Predicting missing words in a sequence

- c) Generating word embeddings from scratch
- d) Classifying sequences based on sentiment
- 101. Which of the following is a commonly used framework for deploying NLP models as web applications?
- a) Flask
- b) Django
- c) Keras
- d) PyTorch
- 102. In Flask, what is the primary function of routes in deploying an NLP model?
- a) To train the model
- b) To define endpoints for handling requests
- c) To preprocess input data
- d) To store model parameters
- 103. Which of the following is essential for deploying an NLP model in production environments?
- a) Real-time inference capabilities
- b) An offline database
- c) A training pipeline

- d) Labeling of large datasets
- 104. Which of the following is a common application of NLP in the healthcare industry?
- a) Named-Entity Recognition for extracting medical terms
- b) Predicting patient outcomes
- c) Machine Translation for translating medical records
- d) All of the above
- 105. Which of the following tools is primarily used for automatic speech recognition (ASR)?
- a) Kaldi
- b) SpaCy
- c) NLTK
- d) TensorFlow
- 106. What is the primary goal of Text-to-Speech (TTS) systems in NLP?
- a) To convert written text into spoken words
- b) To translate text into another language
- c) To identify the emotional tone of a sentence
- d) To identify named entities in speech
- 107. Which of the following is the most common approach for implementing machine translation in NLP?
- a) Neural Machine Translation (NMT)
- b) Rule-based Translation
- c) Statistical Machine Translation
- d) Both a and b
- 108. Which of the following is a primary goal of speech synthesis in NLP?
- a) Identifying speakers
- b) Converting text into natural-sounding speech
- c) Analyzing the acoustic properties of speech
- d) Translating speech into text
- 109. Which technology is commonly used for detecting the language of a given text?
- a) Language Identification Models
- b) Named-Entity Recognition
- c) Part-of-Speech Tagging
- d) Text Summarization
- 110. Which of the following tasks involves identifying the entities (e.g., names, dates) in a piece of text?
- a) Named-Entity Recognition (NER)
- b) Text Classification
- c) Sentiment Analysis
- d) Word Segmentation

- 111. Which of the following is a key component of automatic speech recognition (ASR)?
- a) Signal processing
- b) Speech segmentation
- c) Acoustic modeling
- d) All of the above
- 112. The technique used for representing phonetic sounds in written form is known as:
- a) Phonetic Transcription
- b) Speech Synthesis
- c) Acoustic Modeling
- d) Digital Signal Processing
- 113. Which technique is used in ASR to match speech signals with corresponding words?
- a) Dynamic Time Warping
- b) Hidden Markov Models
- c) Convolutional Neural Networks
- d) Support Vector Machines
- 114. Which of the following technologies is used to improve the clarity of speech in noisy environments?
- a) Noise Filtering
- b) Phonetic Transcription
- c) Vowel Reduction
- d) Speech Synthesis
- 115. Which process in speech synthesis converts linguistic input into prosody and timing?
- a) Text Normalization
- b) Phonetic Analysis
- c) Prosodic Modeling
- d) Speech Segmentation
- 116. Which is a common challenge in speech recognition systems?
- a)Understanding multiple languages at once
- b) Handling various accents and dialects
- c) Synthesizing speech from text
- d) All of the above
- 117. In speech synthesis, which approach focuses on constructing speech from pre-recorded human voices?
- a) Concatenative synthesis
- b) Articulatory synthesis
- c) Parametric synthesis
- d) Deep Learning-based synthesis

- 118. Which of the following is an important step in the Digital Signal Processing (DSP) for speech recognition?
- a) Spectral analysis of speech signals
- b) Lexical normalization of words
- c) Sentence segmentation
- d) Part-of-Speech tagging
- 119. The study of the physical production and perception of speech sounds is known as:
- a) Acoustic Phonetics
- b) Articulatory Phonetics
- c) Computational Phonology
- d) Digital Signal Processing
- 120. What is the purpose of speech recognition in NLP?
- a) To generate human-like speech
- b) To convert spoken language into text
- c) To identify grammatical errors in spoken language
- d) To identify emotions in spoken words
- 121. Which of the following is an important application of NLP in the e-commerce industry?
- a) Chatbots for customer service
- b) Machine Translation for product descriptions
- c) Sentiment analysis for product reviews
- d) All of the above
- 122. Which of the following technologies is used for Handwriting Recognition (HWR)?
- a) Optical Character Recognition (OCR)
- b) Deep Learning-based Recognition
- c) Rule-based Recognition
- d) Both a and b
- 123. Which Indian language script technology is used to process multiple languages in India?
- a) Indic NLP
- b) Devanagari Transliteration
- c) Telugu Script Recognition
- d) BERT for Indian Languages
- 124. Which of the following is a common use case of NLP in social media analysis?
- a) Sentiment analysis of posts
- b) Trend detection
- c) Automated responses through chatbots
- d) All of the above

- 125. Which of the following technologies enables automated correction of spelling and grammar in text?
- a) Grammar Checkers
- b) Spell Checkers
- c) Part-of-Speech Tagging
- d) Both a and b
- 126. What is the primary goal of machine translation?
- a) To understand the sentiment of a text
- b) To generate a translation of text from one language to another
- c) To classify text into categories
- d) To detect named entities in text
- 127. Which of the following is a critical challenge in Neural Machine Translation (NMT)?
- a) Translating between languages with similar syntax
- b) Handling idiomatic expressions in different languages
- c) Overfitting to training data
- d) Both a and b
- 128. Which of the following NLP tasks involves generating human-like conversations with users?
- a) Machine Translation
- b) Dialogue Systems
- c) Named-Entity Recognition
- d) Word Embedding
- 129. Which of the following approaches is used for improving machine translation accuracy?
- a) Neural Machine Translation (NMT)
- b) Rule-based Translation
- c) Statistical Machine Translation
- d) Both a and b
- 130. In which NLP application do we use Optical Character Recognition (OCR)?
- a) Identifying the language of a document
- b) Converting handwritten or printed text into machine-readable text
- c) Translating text from one language to another
- d) Analyzing sentiment in text
- 131. Which of the following is NOT typically a use case for NLP in healthcare?
- a) Automatic patient record transcription
- b) Diagnosing diseases based on medical images
- c) Clinical decision support based on patient data
- d) Text mining of electronic health records
- 132. In Natural Language Understanding (NLU), which task is aimed at determining the meaning of text in a specific context?
- a) Sentiment Analysis
- b) Text Classification
- c) Named Entity Recognition
- d) Semantic Role Labeling

- 133. Which of the following is an example of a named-entity in a text?
- a) " The cat sat on the mat. "
- b) " Apple is located in Cupertino. "
- c) "Quickly running."
- d) " There is a park in the city. "
- 134. Which of the following approaches is used for extracting relevant information from unstructured text in NLP?
- a) Information Retrieval
- b) Information Extraction
- c) Named-Entity Recognition
- d) Text Classification
- 135. Which model is used for improving the generation of more coherent and accurate outputs in NLP tasks such as translation and summarization?
- a) Recurrent Neural Networks (RNN)
- b) Long Short-Term Memory (LSTM)
- c) Transformer
- d) Decision Trees
- 136. Which of the following NLP applications requires understanding the user's intent and context to generate a response?
- a) Text Summarization
- b) Machine Translation
- c) Dialogue Systems
- d) Named-Entity Recognition
- 137. In sentiment analysis, what is the typical goal of the analysis?
- a) Classifying text as positive, negative, or neutral
- b) Identifying key entities in a text
- c) Translating text to another language
- d) Summarizing the text content
- 138. Which of the following challenges is associated with speech recognition in noisy environments?
- a) Phonetic confusion due to background noise
- b) Difficulty in identifying the correct speaker
- c) Processing different accents
- d) All of the above
- 139. What is the primary benefit of neural machine translation (NMT) over statistical machine translation (SMT)?
- a) NMT uses a rule-based approach for translations
- b) NMT produces more fluent and natural translations
- c) NMT does not require parallel corpora for training
- d) NMT is faster in execution

- 140. Which of the following NLP tasks involves segmenting a large corpus of text into smaller, meaningful units?
- a) Tokenization
- b) Lemmatization
- c) Word Sense Disambiguation
- d) Named-Entity Recognition
- 141. Which of the following is a disadvantage of using traditional rule-based machine translation (RBMT)?
- a) It requires a large amount of labeled data
- b) It lacks flexibility and adaptability
- c) It is computationally efficient
- d) It works well for languages with complex grammar
- 142. Which of the following NLP tasks involves determining the most probable meaning of a word based on context?
- a) Word Sense Disambiguation
- b) Tokenization
- c) Named-Entity Recognition
- d) Sentiment Analysis
- 143. Which of the following tools is commonly used in NLP for performing tasks like POS tagging, dependency parsing, and named entity recognition?
- a) TensorFlow
- b) NLTK
- c) Keras
- d) Scikit-learn
- 144. Which of the following algorithms is commonly used in machine learning for text classification tasks?
- a) K-Nearest Neighbors (KNN)
- b) Support Vector Machines (SVM)
- c) Random Forest
- d) All of the above
- 145. In NLP, what is a "stop word"?
- a) A word with no meaning
- b) A word that is ignored during text preprocessing
- c) A word that indicates the beginning of a sentence
- d) A word with a strong emotional connotation
- 146. Which NLP technique is used to reduce words to their base or root form?
- a) Stemming
- b) Lemmatization
- c) Tokenization
- d) Chunking
- 147. Which of the following is the goal of automatic summarization in NLP?
- a) To extract the most important parts of a text
- b) To translate a text into a different language
- c) To identify named entities in a text
- d) To classify text into categories

- 148. Which of the following is a challenge faced by NLP in low-resource languages?
- a) Lack of data for training models
- b) Difficulty in identifying named entities
- c) Complex sentence structures
- d) All of the above
- 149. Which deep learning model is used for sequence modeling in NLP tasks?
- a)Convolutional Neural Network (CNN)
- b) Recurrent Neural Network (RNN)
- c) Generative Adversarial Network (GAN)
- d) Support Vector Machine (SVM)
- 150. Which of the following is a typical use case for neural networks in NLP?
- a) Image classification
- b) Sequence prediction in language generation
- c) Facial recognition
- d) Time-series forecasting