# [ Natural Language Processing ] MCQ

#### MODULE-1

#### Introduction of NLP

- 1. What is the field of Natural Language processing (NLP)?
  - (A) Computer Science
  - (B) Artificial Intelligence
  - (C) Linguistics
  - (D) All of the mentioned

Answer: D

- 2.NLP is concerned with the interactions between computers and human (natural) languages.
  - (A) TRUE
  - (B) FALSE

Answer: A

- 3. What are the main challenge/s of NLP?
  - (A) Handling Ambiguity of sentences
  - (B) Handling
  - (C) Handling POS Tagging

(D) All of the mentioned

Answer: A

- 4. Modern NLP algorithms are based on machines, especially statistical machine learning.
  - (A) TRUE
  - (B) FALSE

Answer: A

- 5. Choose form the following areas where NLP can be useful.
  - (A) Automatic Questions-Answering Systems
  - (B) Automatic Text Summarization
  - (C) Informational Retrieval
  - (D) All of the mentioned

Answer: D

- 6. Which of the following includes major tasks of NLP?
  - (A) Automatic Summarization
  - (B) Discourse Analysis
  - (C) Machine Translation
  - (D) All of the mentioned

Answer: D

- 7. What isCoreference Resolution?
  - (A) Anaphora Resolution
  - (B) Given a sentence or large chunk of text, determine which words ("mentions") refer to the same objects ("entities")
  - (C) All of the mentioned
  - (D) None of the mentioned

Answer:B

- 8. What is Machine Translation?
  - (A) Converts one human language to another
  - (B) Converts human language to machine language

- (C) Converts any human language to English
- (D) Converts Machine language to human language

Answer: A

- 9. The more general task of coreference resolution also includes identifying so-called "bridging relationships" involving referring expressions.
  - (A) TRUE
  - (B) FALSE

Answer: A

- 10. What is Morphological Segmentation?
  - (A) Does Discourse Analysis
  - (B) Separate words into individual morphemes and identify the class of the morphemes
  - (C) Is an extension of propositional logic
  - (D) None of the mentioned

Answer: B

- 11. Given a stream of text, Named Entity Recognition determines which pronoun maps to which noun.
  - (A) FALSE
  - (B) TRUE

Answer: A

- 12. Natural Language generation is the main task of Natural language processing.
  - (A) TRUE
  - (B) FALSE

Answer:A

- 13. OCR (Optical Character Recognition) uses NLP.
  - (A) TRUE
  - (B) FALSE

Answer: A

14. Parts-of-speech tagging determines Part-of-speech for each word dynamically as per meaning of the sentence Part-of-speech for each word dynamically as per sentence (B) structure (C) All part-of-speech for a specific word given as input (D) All of the mentioned Answer: D 15. Parsing determines parse Trees (Grammatical Analysis) for a given sentence. (A) **TRUE** (B) FALSE Answer: A 16. IR (Information Retrieval) and IE (Information Extraction) are the two same thing. (A) **TRUE** (B) **FALSE** Answer: B 17. Many words have more than one meaning; we have to select the meaning which makes the most sense in context. This can be resolved by (A) Fuzzy Logic (B) Word Sense Disambiguation **Shallow Semantic Analysis** (C) (D) All of the mentioned Answer: B 18. Given a sound clip of a person or people speaking, determine the textual representation of the speech.

(A)

Text-to-speech

(B)	Speech-to-text
(C)	All of the mentioned
(D)	None of the mentioned
Answer	:: B
19. Spe	eech Segmentation is a subtask of speech Recognition.
` '	TRUE
` '	FALSE
Answer	": A
	nguistic morphology is the process for reducing inflected o their root form.
(A)	Rooting
	Stemming
	Text-Proofing
	Both Rooting & Stemming
Answer	
21. Hov	w many steps of NLP are there?
(A)	3
(B)	4
(C)	5
(D)	6
Answer	T:C
22.	is the step in which an input sentence is converted into a
	nical structure that corresponds to the units of meaning in the
sentend	·
(A)	Syntactic Processing
(A) (B)	Semantic processing
(C)	Graph processing
$(\mathbf{O})$	Craph processing

(D) Answer	All of the mentioned : A
(A) (B) (C)	ch among the following is one of the stages in the NLP pipeline? Sentiment Analysis Tokenization Spell Checking Syntax Analysis : D
	process of understanding the meaning and interpretation of words nd sentence structure is call as_
(B) (C) (D)	Tokenization Lexical Analysis Semantic Analysis Sentiment Analysis
Answer	: C
25. "I sa	aw bats" contains which type of ambiguity?
(B) (C)	Syntactic Semantic Lexical Anaphoric : C
26. "Sita ambigu	a loves her mother and Gita does too" contain which type of ity?
(A) (B) (C) (D)	Syntactic Semantic Lexical Anaphoric

27. "Linear sequences of words are transformed into structure that show how the words are related to each other" is the part of Analysis.	
<ul><li>(A) Semantic</li><li>(B) Syntactic</li><li>(C) Lexical</li><li>(D) Pragmatic</li><li>Answer: B</li></ul>	
28. How many ambiguities exist in the following sentence. "I know little Italian".	
(A) 1 (B) 3 (C) 2 (D) 0 Answer: A	
29. In which of the following stages of NLP, does one draw a parse tree?	
<ul><li>(A) Morphological</li><li>(B) Syntactic</li><li>(C) Semantic</li><li>(D) Pragmatic</li><li>Answer: B</li></ul>	
30. Using pronouns to refer back entities already introduced in the text is called aproblem. Anaphora Misspellings.	
<ul><li>(A) Multiple</li><li>(B) Meaning</li><li>(C) Lexical</li><li>(D) problem</li><li>Answer: A</li></ul>	

31technique looks at the meaning of the word.
(A) Stemming
(B) Lemmatization
(C) Stop word
(D) Identification Morphological Analysis
Answer: B
MODULE-2
WORD LEVEL ANALYSIS
Morphological Segmentation is
(A) Finding the sense of each word in the sentence
<ul> <li>(B) Separating words into individual morphemes and identifying the class of the morphemes</li> </ul>
(C) An extension of propositional logic
(D) Separating words into individual tokens and counting its frequency
of occurrence
Answer: B
2. Capability vs Capabilities is an example of morphology.
(A) Inflectional
(B) Normalization
(C) Cliticization
(D) Derivational
Answer: D
3. N-Gram language models cannot be used for
(A) Spelling Correction
(B) Predicting the completion of a sentence
(C) Removing semantic ambiguity

(A) Attachment ambiguity	
(B) Scope Ambiguity	
(C) Discourse ambiguity	
(D) Semantics Ambiguity	
Answer: B	
5. How many trigrams phrases can be generated from the following sentence, after performing following text cleaning steps: Stopword Removal, Replacing punctuations by a single space? "# Coursera is a great platform to learn @Machine Learning"?	ıt
(A) 3	
(B) 4	
(C) 5	
(D) 6	
Answer: B	
6. Which of the following techniques can be used to compute the distance between two words?	
<ul><li>(A) Lemmatization</li><li>(B) Part of speech Tagging</li><li>(C) Dekang lin</li><li>(D) N-grams</li><li>Answer: C</li></ul>	
7. How many bi-grams can be generated from given sentence:- "This isNLF book"?	)

4. Which type of ambiguity is present in the sentence "old men and women

were taken to safe locations"? Scope Ambiguity Discourse ambiguity

(D) Speech Recognition

Answer: C

semantics Ambiguity.

(C)	3 2 4
(D) Answer:	1 A
8. How i	is the word "consultants" stemmed?
(C)	Consultant Consult Consult Consultants
	ider the following corpus of 3 sentences. 1) I am here 2) who am I Id like to go. Calculate P(here   am) assuming a bi-gram language
(A) (B) (C) (D) Answer:	1 ½ 1/3
10. FST	is used in Analysis.
(C)	Lexical Morphological Semantic Syntactic B

11. Which of the following is an example of free morpheme?

(A) Ur (B) Fu	I
(C) Ly	
(D) tov	vn
Answer: B	
12. How is	the word "change" stemmed using porter stemmer?
(A) Ch	nan
(B) Ch	ang
(C) Ch	
(D) Ch	ia
Answer: B	
	of the following techniques can be used to compute similarity o sentences in NLP?
(A) Le	mmatization
` '	ort of speech Tagging
	osine similarity
• •	Grams
Answer: C	
14. What is	output of morphological analysis for the input word 'mice'?
(A) Mi	ce N SG
(B) Mo	ouse N SG
` '	ouse N PL
(D) Mi	ce N PL
Answer: C	
15. Which v	would definitely be rejected by the English syntactic analyzer?

(A)

(B)

Rahul is going to school

Rahul is coming from school

•	) Rahul is in the school ) The Rahul the go to the school er: D
16. W	hat is the single morpheme of word "Boxes"?
(B (C	) Box ) Boxes ) Boxses ) Boxing er: A
17. H	ow is the word "changing" lematized?
(B (C	Chang Changin Chan chan
Answ	er: D
18. W	hich is standard notation for characterizing text sequences?
(B (C	<ul> <li>Regular expression</li> <li>Syntatic expression</li> <li>Semantic expression</li> <li>Specific expression</li> <li>er: A</li> </ul>
19. Which is most common algorithm used in English language for stemming?	
(C	Partial stemmer Porter stemmer Faster stemmer Regular stemmer

## MODULE-3

SYNTAX ANALYSIS	
<ol> <li>Solve the equation according to the sentence "I am planning to visit New York to attend International Film Fare Festival".</li> <li>A=(# of words with Noun as the part of speech tag)</li> <li>B=(# of word with verb as the part of speech tag)</li> <li>C=(# of words with frequency count greater than one)</li> <li>What are the correct values of A,B, and C?</li> </ol>	
(A) 5,5,2 (B) 5,5,2 (C) 7,5,1 (D) 7,4,1 Answer: D	
2. Which of the following will be POS Tagger output when the input sentence is "They Refuse to permit"	
<ul> <li>(A) [('They','PRP'),('refuse','VBP'),('to','TO'),('permit','VB')]</li> <li>(B) [('They','NN'),('refuse','VBP'),('to','TO'),('permit','VB')]</li> <li>(C) [('They','PRP'),('refuse','NN'),('to','TO'),('permit','VB')]</li> <li>(D) [('They','PRP'),('refuse','VBP'),('to','TO'),('permit','VB')]</li> <li>Answer: A</li> </ul>	
3. In CFG, terminals mainly correspond towhile pre-terminals mainly correspond to	

- (A) Characters in the language, POS tags
- (B) Words in the language, POS Categorie
- (C) Words in the language, word relations
- (D) Lexemes, POS Tags

- 4.HMM is used in\_\_\_\_\_ phase of NLP.
  - (A) Syntactic
  - (B) Semantic
  - (C) Lexical
  - (D) Pragmatics

Answer: A

5. Which of the following will be POS Tagger output when then input sentence is "And

Now for something completely different"?

- (A) [('And','CC'),('now','RB'),('for','IN'),('Something','RB'),('Completely','RB']]'),('different',]]')]
- (B) [('And','CC'),('now','RB'),('for','IN'),('Something','NN'),('Completely','RB'),('different',]]')]
- (C) [('And','CC'),('now','RB'),('for','IN'),('something','NN'),('completely',' RB'),('different',']]')]
- (D) [('And','CC'),('now','RB'),('for','IN'),('Something','NN'),('Completely',']]'),('different',]]')]

Answer: C

- 6. Identify the POS tag for the word "nice" in following sentence "It was indeed a nice night"?
  - (A) ]]
  - (B) ]]R
  - (C) ]]S

(D)	RB
Answer	: A
7. Whic	h of the following belongs to the open class group?
(B) (C)	Noun Prepositions Determiners Conjunctions : A
8 phrase.	is a group of words that may behave as a single unit or
(B) (C)	Constituency Grammatical Sub-categorization Dependencies
Answer	·
9. Synta	ax Analyser is also known as,
(B)	General Analysis Hierarchical Analysis and parsing
10	tagger uses probabilistic information to assign tags to words.
(B) (C)	Rule based Stochastic tagger Statistical tagger POS tagger :B

11. "I want an early upgrade" What is the type of word class for word "want"?	
<ul><li>(A) Verb</li><li>(B) Determinant</li><li>(C) Personal pronoun</li><li>(D) Adjective</li></ul>	
Answer: A	
12. "Buy books for children" Which type of ambiguity exists in the above sentence?	Э
(A) Semmatic	
(B) Syntactic	
(C) Stochastic	
(D) Lexical	
Answer: B	
13. Stochastic tagger also known as	
(A) HM tagger	
(B) RMM tagger	
(C) HMM tagger	
(D) Super tagger	
Answer: C	
14. Context-free grammars also known as	
(A) Meaning structure grammars	
(B) Character structure grammars	
(C) Shape structure grammars	
(D) Phrase structure grammars	
Answer: D	

15. Which is NO	T a conjunction?
(A) But (B) And (C) Or (D) that Answer: D	
16. Consider the for the statemen	e statement "The students went to class". Assign POS tags t.
(A) DT NN (B) DT NN (C) NN NN (D) DT NN	NN P NN
Answer: A	
17. CFG capture	es
(B) Word m	n between words
Answer: A	se meaning
18. Which of the	following belongs to the open class group?
(A) Verb (B) Preposi (C) Determination (D) Conjunct Answer: A	inants
(B) Preposi (C) Determination (D) Conjunc	inants

### MODULE-4 SEMANTIC ANALYSIS

- 1. What type of relation exist between the words "meet" and "meat"?
  - (A) Homophones
  - (B) Hyponym
  - (C) Co-hyponyms
  - (D) Homonyms

Answer: A

- 2. Consider the following given sentence. Match the lexical relations between the first word (w1) to the second word (w2) i.e.w1 is a of w2.
  - Invention of the wheel is one of the landmarks in the history of mankind.
  - Companies are trying to make driverless car.
  - Golden daffodils are fluttering and in the breeze.
  - Mumbai has unique flower park.
    - 1.Holonym -> i.Wheel-car
    - 2.Hyponym -> ii.car-wheel
    - 3.Meryonym -> iii, daffodils-flower
    - 4. Hypernym -> iv. Flower daffodils
    - (A) 1-iii, 2-ii, 3-iv, 4-i
    - (B) 1-ii, 2-iii, 3-i, 4-iv
    - (C) 1-ii, 2-ii, 3-iv, 4-i
    - (D) 1-i, 2-ii, 3-iii, 4-iv

Answer: B

3. TF-ID	OF helps in
(A) (B) (C) (D) Answe	Stemming and lemmatization Removing stop words in the document
4. The	words "bank/data/blood bank" is an example of
(C) (D) Answe	Synonymy Polysemy Hyponymy
(C) (D)	Noun phrase Verb phrase Prepositional phrase Adverbial phrase nswer: B
6. Wł	nich is example of homophony?
` ,	Homophony Synonymy Polysemy Hyponymy ver: C

7. How many noun phrases are there in the following sentence, "The thie robbed the apartment"?
(A) 1
(B) 2
(C) 3
(D) 4
Answer: B
8. "Car is a of " vehicle".
(A) Antonym
(B) Hypernym
(C) Hypenym
(D) Hyponym
Answer: D
9. "The car hit the pole while it was moving. "What type of ambiguity exists in above sentence?
(A) Semantic
(B) Syntactic
(C) Lexical
(D) Pragmatic
Answer: A
10. X is aof Y if it denotes a part of Y.
<ul><li>(A) Meronym</li><li>(B) Hyponym</li><li>(C) Hynonyms</li><li>(D) Hypernyms</li><li>Answer: A</li></ul>

11. Which of the following pair represents Antonomy lexical relation?			
(B) (C)	(fat, thin) (crow, bird) (window, door) (head, nose) er: A		
12. Per	fect homonyms create problems in		
(B) (C)	Text Recognition Information Retrieval Text classification Speech Recognition er: D		
'	are the lexemes with the same orthographic form but meaning.		
(B) (C)	Homographs Homophones Synonyms Hypernyms er: A		
14. The study of which words occur together, and their frequency of co-occurrence is called as			
` '	Connotation Collocation Implication Location er: B		

	pernymy ronymy
describe the	are created when the constituents within the sentence role of the entities (we look at the NP in a sentence to see creating the action in the VP); found in each sentence
(B) Ser (C) Syr	ntactic features mantic Roles
	erizing the meaning of words in terms of its relationship to other as synonymy, antonymy,and hyponymy is called
(B) Ser (C) Col	adable antonyms

#### MODULE-5 **PRAGMATICS**

tin	he German authorities said a 'Colombian' who had lived for a long ne in the Ukraine flew in from Kiev. 'He' had 300 grams of plutonium 9 in his baggage. "Is an example of which type of reference?
(A)	Nominative pronoun
(B)	Oblique pronoun
(C)	Possessive pronoun
(D)	Reflexive pronoun
Ansv	ver: A
2. Ho	ow many types of Deixis exists?
(A)	3
(B)	5
(C)	4
(D)	2
Answ	er: B
ose id	used to point to things (it, this, these) and people (him, them, iots).
(A)	Spatial deixis
(B)	Pragmatics
(C)	Temporal deixis
(D)	Personal deixis
Ansv	wer: D

4. The words that pronoun refer back to are called as\_\_\_\_\_

(B)	Context
(C)	Reference
(D)	Speech act
Answ	ver: A
F Com	soider the following contenses. "The berge report the bill It was your
	isider the following sentence. "The horse ran up the hill. It was very
steep. i word " "	t soon got tired. "What type of ambiguity is introduced due to the
word	IL ?
(A)	Syntactic
(B)	Pragmatics
(C)	Cataphoric
(D)	Anaphoric
Answ	ver: D
6 "Ha	doesn't know" is an example of type of deixis.
O. TIC	doesn't know is an example of type of delais.
(A)	Personal
(B)	Social
(C)	Space
(D)	Time
Answer	: D
7. "Rar	m's bike is new" istype of presupposition.
(A)	Factive
(B)	Existential
(C)	Lexical
(D)	Structure
Answ	er: B
8	are the entities that have been previously introduced into the
discour	<del></del>

(A) Antecedent

(B) (C)	Anaphoras Cataphoras Pronoun derminers er: A
9. "Ye	esterday I went to college" containstype of deixis.
(C) (D)	Personal Time Social Space ver: B
10. "I act?	appoint you chairman of the committee" is which type of speech
(B) (C) (D)	Commissives Directives Declarations Representatives ver: C
11. "\	You better go to the clinic", is which type of speech act?
(D)	Commissives Directives Declarations Representative ver: B
12. "	I promise to come" is which type of speech act?
(A) (B)	Commissives

(C)	Declarations
(D)	Representative
Answer	: A
	ambiguity refers to a situation where the context of a phrase of
phrase	gives gives it multiple interpretation
(4)	Dragmatia
` '	Pragmatic Anaphoris
	Anaphoric Discourse
` '	Cataphoric
` ,	wer: A
7 (113)	WCI.7
14.	is the study of now the language is used to refer (and re-refer)
	le and things?
(A)	Morphology
(B)	Syntatic
(C)	Sementic
(D)	Pragmatics
Ans	wer: D
15. Wh	nich of the following techniques isused to remove semantic
ambigu	ity?
(A)	Fuzzy logic shallow word sense
(B)	Analysis
(C)	Syntactic analysis word sense
(D)	Disambiguation
Answer	: D
16 \//hi	ich is not an example of stop word?
(A)	A
(A) (B)	Is
(D)	10

- (C) An
- (D) good

Answer: D

### MODULE APPLICATIONS OF NLP

- 1. Anita has got the transcripts for the Minister's press meet on NEP. She wants to summarize the Minister's opinion on NEP strengths and weakness. Which of the following summarization method should she apply?
  - (A) Abstractive generic
  - (B) Extractive generic
  - (C) Abstractive query focussed
  - (D) Summative generic

Answer: C

- 2. What is the right order for a text classification model components
  - 1. Text cleaning
  - 2. Text annotatio
  - 3. Gradient descent
  - 4. Model tuning
  - 5. Text to predictors
  - (A) 12345
  - (B) 13425
  - (C) 12534
  - (D) 13452

Answer: C

3. The \_\_\_\_\_summarization technique involves pulling keyphrases from the source document.

- (A) Extractive
- (B) Abstractive
- (C) Regular
- (D) Automatic

Answer: A

- 4. Spam email detection comes under which domain?
  - (A) Text Categorization
  - (B) NER
  - (C) Text Classification
  - (D) Sentiment Analysis

Answer: C

- 5. Which type of summarizer will be suitable for summarizing tweets about Covid19?
  - (A) Extractive
  - (B) Explorative
  - (C) Explainable
  - (D) Absolute

Answer: A

- 6. Which will be suitable NLP method for COVID19 News Analysis from the online newspaper?
  - (A) NER
  - (B) Machine translation
  - (C) Sentiment Analysis
  - (D) Text Summarization

Answer: D

automat HR recruitment processtype of NLP application will ble.
Questions Answering system Machine translation Sentiment Analysis NER er: A
automated complaint handlingtype of NLP application can
NER Machine translation Sentiment Analysis Text categorization er: D
case of search Engine Optimization,NLP technique can be
Machine Transition Question Answering system Text summarization Sentiment Analysis ver: D
hich of the following is efficient representation of text data?
Bag of word TF-IDF Word Vector BERT er: D

11. Which of the following is the major problem in machine Translation?
<ul> <li>(A) Referential Ambiguity</li> <li>(B) Stop word</li> <li>(C) Emotions</li> <li>(D) Proper noun</li> <li>Answer: A</li> <li>12. For Hate speech detection from facebook messagesNLP</li> </ul>
technique can used
<ul> <li>(A) Text Classification</li> <li>(B) Information Retrieval</li> <li>(C) Information Summarization</li> <li>(D) Information indexing</li> <li>Answer: A</li> </ul>
13. For Research article recommendation systemNLP application can used
<ul><li>(A) Informational Retrieval</li><li>(B) Text Classification</li><li>(C) Text summarization</li><li>(D) NER</li></ul>
Answer: B
Named entity recognition is a technique to locate and classify    entities in unstructured text.
<ul><li>(A) Proper noun</li><li>(B) Verb</li><li>(C) Adjective</li><li>(D) Prepositions</li><li>Answer: A</li></ul>

	ich of the following entities are identified by NER?
(A)	Proper nouns Noun phrase
` '	Verb phrase
(D)	·
Answer	
16. Wh	ich application use to determine people in context?
(A)	Stemming
(B)	Lemmatization
(C)	Stop word removal
(D)	Named entity recognition
Ans	wer: D
17. Wh	nich is the most suitable technique for "Trending Topic on Twitter"?
(A)	Term frequency
(B)	NER
(C)	Tokenization
(D)	segmentation
Ansv	ver: A
	under picha is the CEO of google having headquarters in california",
	any named entities exist in above sentence.
(A)	4
(B) (C)	2 3
(D)	1
Answer	
19. God	ogle news aggregator is example of
(A)	Machine translation application
(B)	Text summarization application
` '	• •

- (C) NER application
- (D) Information retrieval application

- 20. Deciding insurance premium of a car based on online customers reviews is an application of \_\_\_\_\_
  - (A) Information retrieval
  - (B) Information Extraction
  - (C) Sentiment Analysis
  - (D) Text Summarization

Answer: C