University of Mumbai

Examinations summer 2022

Examination: BE Semester-VIII (Rev2016)

Course Code: **DLO8012**Time: 2 hours 30 minutes

Course Name: **Natural Language Processing**Max. Marks: 80

Q1.	Choose the correct option for the following questions. All the questions are compulsory and carry equal marks			
1.	What does morphological disambiguation mean?			
Option A:	It is a process to check semantics in the given context			
Option B:	It is a process of choosing the proper morphological interpretation of a token in given context.			
Ontion C				
Option C:	Process of defining only rules. Process of selecting the algorithm			
Option D:	Process of selecting the algorithm			
2.	is a process of assigning a corresponding part of speech like a noun, verb, adverb and adjective to each word in a sentence.			
Option A:	Stemming			
Option B:	Lemmatization			
Option C:	Part-of-speech tagging			
Option D:	Parsing Parsin			
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3.	The process of deciding what pronouns and other noun phrases refer to is known as			
Option A:	Inferable			
Option B:	Coreference Resolution			
Option C:	Reflexive			
Option D:	Verb Semantics			
1				
4.	Lesk algorithm			
Option A:	converts words to vectors			
Option B:	finds comparison between two words			
Option C:	measures overlap between sense definitions for all words in context			
Option D:	check for similarity between words in context			
5.5	Which of the following is an example of "hyponym-hypernym" semantic relationship?			
Option A:	Car-Vehicle			
Option B:	Car-Wheel			
Option C:	Wheel-Car Wheel-Car			
Option D:	Car-Ford			
X 0 8 0 X 9				
6.9	The stemming algorithm is used to			
Option A:	Form complex words from base form			
Option B:	Generates the parse tree of a sentence			
Option C:	Check meaning of a word in dictionary			
Option D:	Reduce inflected form of a word to a single base form			
2 25 25 62 65 6	'AD 45'			

7.	In which of the summarization technique, the summary contains the sentences	
, ·	from the given document only?	
Option A:	Extractive Summarization	
Option B:	Abstractive summarization	
Option C:	Mixed Summarization	
Option D:	Copied summarization	
8.	The ambiguity in the sentence - Rima went to Gauri. She said, "I am tired."	
Option A:	Syntactic Ambiguity	
Option B:	Semantic Ambiguity	
Option C:	Lexical Ambiguity	
Option D:	Referential Ambiguity	
9.	Pragmatic refers to	
Option A:	Literal meaning	
Option B:	Intended meaning	
Option C:	Structural meaning	
Option D:	Wordnet dictionary meaning	
10.	Natural Language Generation does not involve the following task	
Option A:	Producing meaningful phrases and sentences	
Option B:	Mapping the given input in natural language into useful representations.	
Option C:	Retrieving the relevant content from the knowledge base.	
Option D:	Mapping sentence plan into sentence structure	
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Q 2	Solve any Two Questions out of Three (20 Mark)		
A	What is information retrieval and machine translation in applications? Give a brief answer on both.		
В	What is Word Sense Disambiguation? Illustrate with an example how the Dictionary-based approach identifies the correct sense of an ambiguous word.		
С	Explain derivational and inflectional morphology in detail with suitable example		

Q3	Solve any Two Questions out of Three	(20 Mark)
A	Why it is important to preprocess text data in natural the steps of preprocessing with examples.	ural language? Explain in detail
B	What are the five types of referring expressions?	Explain with example
C	Write Note on Text Summarization	

Q 4	Solve any Two Questions out of Three (20 Mark)	
A	What is a language model? Explain the N-gram model	
B	How HMM is used for POS tagging? Explain in detail.	
C	What is lexicon, lexeme and Explain the different types of relations that hold between lexemes with example	