

UOM Exam Second half 2021_Question paper_R2016/Comp/DLO8012 - Natural Language Processing/Sem-VIII

20180160.sharontpc@student.xavier.ac.in [Switch account](#)



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*** Required**

Solve Questions as per the instructions given separately.

- Please upload a single PDF for Q1 to Q4
- For MCQs Question write Question number & correct option with complete text in option.
- Q2 to Q4 are subjective questions - Solve Questions as per the instructions and marks allotted.



Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	What is morphology?
Option A:	The study of linguistic sounds
Option B:	It is a study of the way words are built up from smaller meaning-bearing units called morphemes.
Option C:	The study of the structural relationships between words.
Option D:	The study of linguistic units larger than a single utterance.
2.	Select correct example of inflectional morpheme?
Option A:	Read --> Reader
Option B:	Teach --> Teacher
Option C:	Tall --> Taller
Option D:	Play --> Player
3.	Parts of speech can be divided into two broad super categories _____
Option A:	Parent class and derived class
Option B:	Closed class and open class
Option C:	Sentence class and character class
Option D:	Sub class and child class
4.	Bigram model also called as _____
Option A:	First-order Markov model
Option B:	Second-order Markov model
Option C:	Third-order Markov model
Option D:	(N-1)th-order Markov model
5.	"Customer Review system" is example of one of the following?
Option A:	Machine Translation
Option B:	Sentiment Analysis
Option C:	Question-Answering system
Option D:	Text-Summarization

6.	"I saw someone on the hill with a telescope." is the example of which type of ambiguity?
Option A:	Lexical Ambiguity
Option B:	Semantic Ambiguity
Option C:	Syntactic Ambiguity
Option D:	Pragmatic Ambiguity
7.	Sentiment analysis is also called as _____
Option A:	Summarization
Option B:	Question-Answering
Option C:	Opinion Mining
Option D:	Named-Entity Recognition.
8.	What is the task of Robust Word Sense Disambiguation (WSD) for word in given sentence?
Option A:	Define a concept or word meaning
Option B:	Measure overlap between sense definitions for all words in context
Option C:	Define word without senses
Option D:	selecting the correct sense for a word in a given sentence
9.	"Please maintain silence" is the example of _____
Option A:	Wh-subject Question
Option B:	Yes-No Question
Option C:	Imperative sentence
Option D:	Declarative sentence
10.	Select correct constraint on coreference for given example "John and Mary have Hyundai cars. They love them".
Option A:	Number agreement
Option B:	Gender agreement
Option C:	Person and Case agreement
Option D:	Syntactic constraint.

Q2. (20 Marks)	Solve any Two Questions out of Three	10 marks each
A	What are the stages of NLP? Explain with example.	
B	What are basic regular expression patterns? Give brief answer for each with example.	
C	What are the attachments for fragment of English? Explain with example.	

Q3. (20 Marks)	Solve any Two Questions out of Three	10 marks each
A	Differentiate between Derivational and Inflectional morphemes.	
B	Define POS tagging. Explain rule-based POS tagging with example.	
C	What are the reference phenomena? Explain types of referring expression.	

Q4. (20 Marks)	Solve any Two Questions out of Three	10 marks each
A	Differentiate between closed classes and open classes with example.	
B	<p>Show derivation of "The boy likes a girl" in parse tree, consider following grammar rule:</p> <p>$S \rightarrow NP VP$</p> <p>$VP \rightarrow Verb NP$</p> <p>$NP \rightarrow Det NOM$</p> <p>$NOM \rightarrow Noun$</p> <p>$Noun \rightarrow boy girl$</p> <p>$Verb \rightarrow sees likes$</p> <p>$Adj \rightarrow big small$</p> <p>$Adv \rightarrow very$</p> <p>$Det \rightarrow a the$</p>	
C	What is information retrieval and machine translation in applications? Give brief answer on both.	

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