28. a.	networks? Discuss with typical example for their needs.	10		J	
	(OR)				
b.	Explain in detail about discourse and its relevance to test coherence.	10	3	3	4
29. a.	Justify the role of lingual based approach for machine translation. Elaborately your answer with relevant example.	10	4	4	5
	(OR)				
b .	Distinguish extractive and abstractive summarization with an example.	10	3	4	4
30. a.	Write short notes on: (i) Word embeddings (ii) Sentence embeddings	10	2 .	5	1
b .	(OR) Explain in detail about probabilistic and statistical approach.	10	3	5	4
3.					

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Reg. No.							

B.Tech. DEGREE EXAMINATION, NOVEMBER 2022

Sixth/ Seventh Semester

18CSE359T – NATURAL LANGUAGE PROCESSING

		(For the cana	lidates admitted	from th	e acc	ndemic year 2020-2021 and 2021 -202	022)											
Note: (i)						rithin first 40 minutes and OMR shee	t shoul	d be	han	ded								
(ii)			ator at the end or answered in ans															
	21						3.6	3.6	1	7.5								
Time: 21	∕₂ Hou	irs					Max.	Mai	KS:	/5								
		_ ']	PART – A (25	×1=	25 N	Aarks)	Marks	BL	со	PO								
			Answer A															
1	What	t is the main	challenges of				1	1	1	1								
		Handling sentences	ambiguity		(B)	Handling tokenization												
	(C)		os-tagging		(D)	Handling semantic												
2.		_	cess of turning	g diffe	rent	morphologies of a word into its	1	1	1	2								
		form?			(T)													
	` /	Ngrams			` /	Tokenization												
	(C)	Lemmatizat	ion		(D)	Stopwords												
3.	The	oint probabi	lity can be cale	culated	l usir	ng the	1	1	1	1								
	(A)	Conditional	probability		(B)	Probability												
	(C)	Sentence	4		(D)	Word												
4.		is	a process of a	ssignii	ng c	orresponding part of speech like	1	1	1	2								
	noun		b, adjective to	-	_													
		Part of spee				Name entity tagging												
	. ,	Parsing				Disambiguation												
5.	How	many bi-gra	ams can be gen	erated	fron	n the given sentence:	1	2	1	2								
			ather of our na															
	(A)	7			(B)	6												
	(C)	8			(D)													
6.	Whi	ch of the foll	lowing tasks w	ould h	elp ı	as in choose the right meaning as	1	1	2	1								
			which the wo		-													
	_	Lemmatizat			(B)	Word sense disambiguation												
××	(C)	Stemming			` ′	Discourse analysis												
7.	Word in N	-	multiple mea	nings.	This	leads to what type of ambiguity	1	1	2	2								
	(A)	Syntactic ar	nbiguity		(B)	Anaphoric ambiguity												
	(C)	Semantic ar			` ,	Lexical ambiguity												

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8.	Which of the following is an exreflexive (A) They (C) myself	(B) To-myself (D) One – another	1	1	2	2	19.	(A) Human language to machine (B) One human language to another language (C) Any human language to (D) Machine language to human	1		7	2
9.		me come on next day". What type of	1	2	2	2	20.	English language In NLG includes retrieving the relevant content from knowledge base1 (A) Sentence planning (B) Text realization (C) Text planning (D) Text mapping	1	1	4	1
10.	Which is a model of measuring the in (A) A low weight in TF – IDF (C) A bag of words	ncidence of known words? (B) A high weight in TF – IDF (D) A corpus	1	1	2	1	21.	Same word can have multiple words embeddings possible with? (A) ELMO (B) Glove (C) wordzVec (D) Nltk	1	1	5	2
11.	What does the phenomena that opera (A) Cohesion and coherence (C) Connection and resolution	(B) Corrosion and erosion (D) Cooperation and coordination	1	1	3	1	22.	Which will be a suitable NLP method for Covid'19 news analysis from the online newspapers? (A) NER (B) Machine translation (C) Sentiment analysis (D) Text summarization	1	2	5	2
12.	Which of the following is an NL referring expressions that point to the (A) Named entity recognition (C) Information resolution	P task that involves determining all e same real world entity. (B) Coreference resolution (D) Discourse analysis	1	1	3	2	23.	In RNN each unit has an internal state which is called the (A) Visible state of the unit (B) Hidden state of the circle (C) Visible function (D) Hidden function	1	1	5	2
13.	Which of the following is the graph to (A) Undirected graph (C) Directed acyclic graph	used to represent semantic network? (B) Directed complete graph (D) Directed graph	1	1	3	2	24.	Spam email detection comes under which domain? (A) Text categorization (B) NER (C) Text classification (D) Sentiment analysis	1	2	5	2
14.	Select the extension of the semantic (A) Partitioned networks (C) Decision tree based networks	network? (B) Rule based expert systems (D) Expert systems	1	1	3	2		When training a language model, if we use an overaly narrow corpus, the probabilies? (A) Don't generalize (B) Don't reflex the task (C) Reflect all possible working (D) Reflect intuition	125			
15.	Which of the following is the frame?(A) Data structure(C) Data type	(B) A way of representing knowledge(D) Procedures and default values	1	1	3	1		$PART - B (5 \times 10 = 50 Marks)$	Marks	BL	со	PO
16.		d method for improving recall of an (B) Ontology based model	1	1	4	2		Answer ALL Questions Define vector representation of words. Explain in detail about language models.	10	3	1	4
17.	The vocabulary size (unique words) of (A) Zipf's law		1	1	4	2		(OR) How will you represent the regular expression? Explain in detail about the steps of NLP.	10	3	1	4
18.	(C) Scientific law A metric used to measure the impocollection is called	(D) Heaps law ortance of a term in a text document	1	1	4		27. a.	Discuss in detail about (i) Pronoun resolution (ii) Dependency parsing	10	2	2	4
	(A) Inverse document frequency (C) Inverse term frequency	(B) Term frequency (D) Document frequency					b.	(OR) Explain in detail word sense disambiguation techniques.	10	3	2	4

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