Total No	. of Questions : 8] SEAT No. :			
P624	[Total No. of Pages : 2			
	[6004]-577			
	B.E.			
INFORMATION TECHNOLOGY				
Natural Language Processing				
(2019 Pattern) (Semester - VIII) (414451C) (Elective - V)				
Time : 27				
Instructi 1)	ons to the candidates:  Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.			
2)	Neat diagrams must be drawn wherever necessary.			
3)	Figures to the right indicate full marks.			
4)	Assume suitable data, if necessary.			
<b>Q1)</b> a)	What is Lexical Semantic? What are the main approaches to meaning			
	representative Compare and contrast them? [8]			
b)	Explain Word Sense Disambiguation. How it is handled in NLP? [10]			
	OR OR			
<b>Q2)</b> a)	Define cohesion and explain its role in discourse processing. [6]			
b)	Write a short note on: Relation of class model and state model. [6]			
c)	Explain Sematic meaning and its representation with respect to Indian			
	languages. [6]			
<b>Q3)</b> a)	How Dependency path kernal is used in relation extraction. [8]			
b)	What is role of annotate knowledge in text reports. [9]			
- /	OR			
<b>Q4)</b> a)	How natural language processing is used in web search? Explain with an			
2 , ,	example. [7]			
b)	Write a note on: [10]			
,	i) Frame semantics.			
	ii) Semantic role labeling.			
Co				

Write algorithmic steps in detail for document separation.
Write a note on:
i) Domain knowledge.
ii) Domain Concepts.
iii) Knowledge Roles.
OR **Q5)** a) [8]

b) [9]

Q6)	a)	Give a suitable example for "Document Separation as a sequence Map problem".	ping [8]
	b)	What is Role Data Preparation in Automatic Document Separation.	[9]
	,		
<b>Q</b> 7)	a)	Explain in detail working of iSTART.	[8]
	b)	Write a note on Dexical resources:	[10]
		i) Stemmers.	
		ii) Part-of-Speech Tagger.	
		OR	
<b>Q8</b> )	a)	Explain in detail "Evaluation of the IR System".	[6]
	b)	Discuss in detail design Features of any Information Retrieval system	
	c)	How Classical Information Retrieval Models works?	[6] [6]
	(	The Velassical information retrieval World's GARS.	[v]
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