Total No. of Questions: 8]		SEAT No. :
PD4671	[6404]-177	[Total No. of Page

B.E. (Information Technology)

NATURAL LANGUAGE PROCESSING

	(20	019 Pattern) (Semester - VIII) (414451C) (Elective - V)
		Hours] [Max. Marks: 70
Instr		ns to the candidates:
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
	2)	Neat diagrams must be drawn wherever necessary.
	3)	Figures to the right side indicate full marks.
	<i>4</i>)	Assume Suitable data if necessary.
Q 1)	a)	Explain WSD in NLP. [6]
	b)	Explain the difference of discourse structure from other reference
	6	mechanisms. [6]
	c)	Write a short note on Semantic Analysis. [6]
		OR O
<i>Q</i> 2)	a)	What are the different types of ambiguity? Provide an example of each.[6]
Q2)	,	
	b)	How do anaphora and cataphora affect cohesion in discourse
	`	processing? [6]
	c)	Explain the concept of compositional meaning and its role in meaning
		representation. [6]
		26.
<i>Q3</i>)	a)	Explain with example two major approaches for relation extraction. [6]
	b)	Describe the patterns used to extract relationship between two entity
	4	with a given sentence. [6]
c) Explain the journey of text processing from word Sequence		
	N	dependency Paths. [6]
. ^	Z	OR OS
<i>Q4</i>)	a)	Write short note on the following: [10]
		i) In fact System Overview
		ii) Global Security.org
	1. \	O, 4
	b)	Write a note on "frame Semantics & Semantic role labelling". [8]

Q 5)	a)	How pages are classified for trainable document separation.	[9]
	b)	What is probabilistic model? Give examples of probabilistic models explain any one in detail.	and [9]
		OR	
Q6)	a)	What is sequence mapping problem? How it affects the docum separation?	nent [9]
	b)	Write a note on various approaches to analysing texts.	[9]
<i>Q7</i>)	a)	Write a short note on	[9]
		i) Word Net	
		Frame Net	
		iii) Stemmers	
	b)	Explain non - classical Information Retrieval Model.	[7]
		With a suitable example explain cluster based IR modeling. Explain design feature of IR with a neat diagram. **X ** **X** **A ** **A **	5
Q 8)	a)	With a suitable example explain cluster based IR modeling.	[9]
	b)	Explain design feature of IR with a neat diagram.	[7]
-	`	X X X	
	\		
[640) 4]-	-177 2	