Duration: 3 Hrs		: 3 Hrs Marks :8	Marks :80	
Note.	•	1) Question No.1 is compulsory.	ON B	
		2) Attempt any three question out of remaining five.	766	
		3) Draw neat diagrams and assume suitable data wherever necessary.	SEE	
		4)Figures to the right indicate full marks		
Q1	a)	Explain derivational and inflectional morphology.	[5]	
	b)	Define syntactic and semantic level of language understanding in natural language processing. Give example for each level	(5)	
	c)	Identify and describe the ambiguities in the following sentences	[5]	
		I. The man kept the dog in the house ii. Book the flight		
	d)	What is N-gram model in natural language processing?	[5]	
	u)	William 15 TV grain model in natural language processing.	2.101	
Q2	a)	Describe thematic role used in the semantic analysis with the example.	[10]	
	b)	Explain various approaches to perform Part- of- speech (POS)	[10]	
	0)		[IV]	
Q3	a)	What is text coherence? Discuss the significant of text coherent in	[10]	
	,	discourse segmentation.		
	b)	Explain the process of multi –document summarization.	[10]	
	ĺ			
Q4	a)	Explain rule based and stochastic POS tagging with example.	[10]	
	b)	Explain with suitable example following relationships between word	[10]	
		meaning		
		Hononymy, Polysemy, Antonymy, Hypernomy, Hyponymy, Meronymy.		
Q5	a)	Analyse how statistical method can be used in machine learning	[10]	
		translation.		
	b)	What is the role of FSA in morphological analysis? Explain FST in	[10]	
		details.		
Q6	a)	Write a note on (any 2)	[20]	
	3770	a) Porte's stemming algorithm		
	36.00	b) Information Retrieval		
	40.00	c) Hierarchical discourse structure & reference resolution		
	33.75	d) Semantic Analysis		
		c) Hierarchical discourse structure & reference resolution		
