OR	
Speech Perception (ii) Speech Synthesis.	(i) Speech
ns: [8]	b) Explain in terms:
Physiology of Speech Production. [8]	
What is Auditory physiology? Explain with suitable example. The	O5) a) What is Aud
10	process??
What is HMM? Why HMM is called as 'Doubly Embedded Stochastic	b) What is HM
Log-Linear Models (ii) HMM Ergodic models	(i) Log-Lin
m: [6]	Q4) a) Explain the term:
OR SE	TIL CARVALL
Enlist Various Unsupervised Methods in NLP. Explain any one method	b) Enlist Variou
; heaviest	heavy, heavier, heaviest.
Draw FST for the following words: [6]	Q3) a) Draw FST for
(ii) Discourse Processing	(i) Languag
Define the following terms: [4]	b) Define the fol
What is Lexical Knowledge Networks? Explain in brief. [6]	Q2) a) What is Lexic
OR	\
Write a note on: Metaphors. [4]	b) Write a note of
Explain with suitable example: Scope Ambiguity. [6]	Q1) a) Explain with:
Assume suitable data, if necessary.	4) Assume suitable
Neat diagrams must be drawn whenever necessary.	
Answer Q.7 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	2) Answer Q.I or Q.2,
tes:	tic
[Max Marks:70	Time: 21/2 Hours]
(2012 Pattern) (Elective-II) (End Sem.) (410445 D) (Semester - I)	(2012 Pattern) (Ele
MULTIDISCIPLINARY NATURAL LANGUAGE PROCESSING	MULTIDISCIPLIN
B.F. (Computer Engineering)	
[5154] - 681 [Total No. of Pages : 2	P3114
SEAT No. :	Total No. of Questions: 9]

5							29)		28)		27)		26) a)
4			e	d)	0	b) a	W	b)	a)	<b>b</b> )	a)	<b>b</b> )	2
5154]-681	188, 188, 180 Vo	80 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Natural Language Tool K		Robust and Scalable Machin	a) Lext Entailment. b) Web mining and Text mining.	rite a short Note on : (Any Thre	What is th with exam	28) a) Give the importance of Multilingual Dictionaries with Bilingual Dictionaries. [8]	b) Give Various approaches of Word Sense Disambiguation. [8]  OR	a) Explain in detail : Lexical Knowledge Networks. [8]	b) What is Speech Processing? Explain in detail, the Biology of Speech Processing. [8]	a) Compare adaptation level phenomenon with Sentence-level Phenomena. [8]