Total No	o of Questions $\cdot 41$	0-	an. n	
Total No. of Questions : 4] PA-10124		3	SEAT No. :	
PA-10	U1 <i>2</i> 4	[6009]-428	[Total No. of Pag	ges : 1
	T.E. (Artificial In	ntelligence and Data S	Science) (Insem)	
	NATURAL	LLANGUAGE PRO	CESSING	
(2019)	9 Pattern) (Semest	er - II) (317532 (B)) ((Elective - II) (Theo	ory)
Time : 1	Hour]	Ç.	[Max. Mari	ks : 30
	ions to the candidates:	22 102 04		
1) 2)	Solve questions Q.1 or	Q.2 and Q.3 or Q.4. drawn wherever necessary.		
<i>3</i>)	Figures to the right ind			
4)	Assume suitable data, i			
		·	200	
Q1) a)	Explain Generic Na	ntural Language Processin	ng System in detail.	[5]
b)	List and explain the	challenges of Natural La	anguage Processing.	[5]
c)	Describe knowledg	ge-based approaches used	d in NLP.	[5]
	8.	OR V		
Q2) a)	List and explain dif	ferent Levels of Natural I	Language Processing.	[5]
b)	Explain the applica	tions of Natural Languag	ge Processing.	[5]
c)	Describe rule-based	d approaches used in NL	LP.	[5]
		0,30		, , , ,
Q3) a)	What is Morpholog	gy? Which are the types	of Morphology?	[5]
b)	Explain Morpholog	ical Parsing with Finite-S	State Transducers.	[5]
c)	Discuss the term W	ord and Sentence Token	ization	[5]
		OR	0 000	
O(4) a)	Describe N-gram fo	or language model using	suitable example	[5]



[5]

[5]

Explain Orthographic Rules and Finite-State Transducers.

Explain Derivational & inflectional morphology in detail.

b)

c)