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Internal Assessment Test 1 – September 2019

Sub:	Natural Language Processing					Sub Code:	15CS741	Branch:	CSE	
Date:	14.09.19	Duration:	90 min's	Max Marks:	50	Sem / Sec:	VII/A,B,C		OBE	

Answer any FIVE FULL Questions

		MARKS	CO	RBT
1 (a)	What is NLP? Explain the challenges and applications of NLP.	[04]	CO1	L2
(b)	Explain the stages of transformational grammar for the sentence "The boy hit the girl".	[06]	CO1	L2
2 (a)	Explain various grammar based language models.	[03]	CO1	L2
(b)	Explain in detail about Paninian framework and its layered representation.	[07]	CO1	L2
3.	Explain briefly about Government and binding grammar.	[10]	CO1	L2
4.	Explain Lexical functional grammar (LFG) model for the sentence "I saw Dinesh in the Mall at night".	[10]	CO1	L3
5.	Explain the stages of morphological parsing using FST.	[10]	CO2	L2
6.	Explain the types of statistical language model with an example.	[10]	CO1	L2
7(a)	What is Regular Expression and write down the regexes for email address.	[4]	CO2	L1
(b)	Describe in detail about Finite State Automata with an example.	[6]	CO2	L1

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