Total No. of Questions : 8]		SEAT No. :
PC1738		[Total No. of Pages : 2
	[6353]-55	

T.E. (Artificial Intelligence & Data Science) PATTERN RECOGNITION

		PATTERN RECOGNITION	
		(2019 Pattern) (Semester - I) (Elective - I) (317522B)	
		[Max. Marks ons to the candidates:	: 70
1)		Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.	
2)		Neat diagrams must be drawn wherever necessary.	
3) 4)		Figures to the right indicate full marks. Assume suitable data, if necessary.	
Q1) a	.)	Explain Blocks Word Description String Generation example as Patt Description.	ern [9]
b)	Describe an Abstract View of Parsing Problem?	[8]
		OR OR	
Q2) a	.)	Describe the Chomsky Normal form with suitable example.	[9]
b)	Identify the different Elements of Formal Grammars.	[8]
Q3) a	.)	Describe the Design and Selection of Similarity Measures.	[9]
b)	Explain Clique finding algorithm with suitable example.	[8]
		OR OR	
Q4) a	.)	Distinguish between Homomorphism and Isomorphism.	[8]
b)	Draw and Explain Grammatical Interface Model and its objective.	[9]
Q 5) a	.)	Describe with neat diagram Artificial Neuron Activation and Out Characteristics.	put [9]
b))	Describe the different reasons to adopt a Neural Computation Architecture.	nal [9]
		$OR \qquad \bigcirc^{\vee}$	

Q6)	a)	Explain different Characteristics of Neural Computing Applications. [9]	
	b)	Describe CAM & other Neural Memory Structure. [9]	
Q7)	a)	Explain how the character classification is done with Pattern Associator? [9]	
	b)	Explain Summary of the Back Propagation learning Procedure with suitable diagram. [9] OR	
Q 8)	a)	Draw & explain how to train the feedforward network using Generalized delta Rule? [9]	
	b)	Draw & Explain structure of a Multiple Layer Feedforward Network.[9]	
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