Total No. of Questions : 8	3]
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P7555	

SEAT No.:			
[Total	No. of Pages	•	2

[6180] - 66

T.E. (AI & DS)

PATTERN RECOGNITION

	(2	2019 Pattern) (Semester - 1) (31/522 B) (Elective - 1)				
Time: 2½ Hours] [Max. Marks:						
Instr	uctio	ons to the candidates:				
	<i>1</i>)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q8.				
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.				
	<i>3</i>)	Figures to the right indicate full marks.				
	<i>4</i>)	Assume suitable data if necessary.				
Q1)	a)	Identify the different examples of String Generation as Description?	Pattern [9]			
	b)	What are the different types of String Grammar? Explain it?	[8]			
		OR				
Q2)	a)	Compare Grammar and Langugae with suitable example?	[9]			
	b)	Describe the Grammar Based Approach and its uses in detail?	[8]			
Q3)	a)	Clarify canonical definite finite state grammar (CDFSG) with suita ample?	able ex- [9]			
	b)	Identify Isomorphism if we are having two Graph G1 and G2, eap nodes?	ch with [8]			
		OR				
Q4)	a)	Examine various applications of Relational Graph to I Recognition?	Pattern [8]			
	b)	Determine the Recursive procedure to find Cliques with suitable ex	ample? [9]			

Q 5)	a)	CAM and other Neural Memory Structure? [9]
	b)	Draw and Explain Artificial Neuron Activation and output Characteristics? [9]
		OR
Q6)	a)	Explain Neural Networks as a Black Box Approach? [9]
	b)	Describe the different reasons to adopt a Neural Computational Architecture? [9]
Q7)	a)	Draw & Explain Summary of the Back Propagation learning Procedure? [9]
	b)	Clarify how the character classification is done with Pattern Associator? [9]
		OR
Q 8)	a)	Draw & Explain how to train the feedforward network using Generalized delta Rule? [9]
	b)	Describe the structure of a Multiple Layer Feedforward Network? [9]



