B.E. (Information Technology) Eighth Semester (C.B.S.)

Elective-III: Pattern Recognition

P. Pages: 1 Time: Three Hours



NRT/KS/19/3704

Max. Marks: 80

D.			- 0 0			11/11/11/11
	Note	s: 1.	All questions carry marks as ind	icated.		
		2.	Solve Question 1 OR Questions			
		3.	Solve Question 3 OR Questions			
		4.	Solve Question 5 OR Questions	No. 6.		
		5.	Solve Question 7 OR Questions	No. 8.		
		6.	Solve Question 9 OR Questions			
		7.	Solve Question 11 OR Questions			
		8.	Assume suitable data whenever			•000
		9.	Illustrate your answers whenever		of neat sketc	hes.
	a)		e the overview of pattern recognit			
	b)	Explair	supervised and unsupervised lear			
				OR		
	a)	Discuss	various applications of pattern re	cognition.		25
	b)	Describ	e any one model of pattern recogn	nition system.		200
	a)		e the challenges in Bayesian decis			
	b)		the term loss, risk and decision rul			
	0)	Deline	ne term 1033, risk and decision ru	OR 55		
	0.00					
	a)		how patterns are classified using			(
	b)	Describ	e maximum like hood Estimation.	. 17		
	a)	Explair	C means algorithm in detail.			
	b)	In detail	explain about graph theoretic app	proach to pattern cluster	ing.	
				OR		
i.	a)	Explair	how validity of cluster are perfor	med.		
	(b)	Total Control	e FCMA in detail.			n 1.
3	a)		various features of stochastic gra	mmar		(1)
		1 3 3 3				, "]].
	b)	Discuss	structural pattern recognition in d			Y D
				OR		
3.	a)	Write s	nort note on KL- transform.			
	b)	Describ	e various elements of formal gran	ımar.		
	a)	Explair	Recognition task of HMM.			3
	b)	In detail	explain linear support vector ma	chine.		
			· · · · · · · · · · · · · · · · · · ·	OR		
0.		Writes	nort note on.			13
υ.			dden Markov Model.			
			le of feature selection in SVM.			
1.	a)		fuzzy pattern classifier.			
	b)		fuzzy logic vs crisp logic.			- 6
	0)	Lascus	tuzzy togie va crisp togie.	OR		000
1		9/				1100
2.		Explair	pattern classification using genet	ic algorithm.		V/ 2018