END SEMESTER THEORY EXAM; NOV./DEC.-2018

Program:		M. Tech (ECE)		Year/Semester:	3 rd Sem.
Course/Subject Code:		Neural Network & Fuzzy Logic 13130301	Duration: Maximum Marks:	03:00 Hrs. 100	
					Roll No.:
 Candidate be made v Attempt f unit. All against ea 	or Roll No. on the should ensure within 15 minutive questions in questions carry ich question.	tes of the commencement all. Q.No. 1 is compu	ent of the exam. No con alsory. Attempt other for a question should be a	n paper. Complaint(s) in this inplaint(s) will be entertained our questions, by selecting on ttempted in sequential order.	thereafter. e question from eac
Q.1	Explain th	e following:			(20)
	a) Expla	in Neural Network	Terminology		
	b) What	is Clustering algori	thm		
	c) What	are associative mer	nories		
	d) What	is Fuzzy Inference	Algorithm		
			<u>UNIT-I</u>		
Q.2	Explain th	e history of develop	oment in neural net	work principles	(20)
Q.3	Explain				(20)
	(a) Mode	l of a neuron			
	(b) Fuzzy	System Design			
			<u>UNIT-II</u>		100
Q.4.	Explain ba	asic Hop field mode	el		(20)
Q.5.	Explain K	ohonen's Map			(20)
			UNIT-III		
Q. 6	Explain ba	asic Radial function	s of neural network		(20)
Q. 7	Write note	on applications of	neural nets		(20)
			<u>UNIT-IV</u>		
Q. 8	Explain				(20)

(a) Fuzzy IF-Then rules (b) Variable Interference Techniques

(20)

(a) Linguistic variables (b) Fuzzy Vs Crisp set

Q. 9 Explain

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Program:	M. Tech (ECE)	Year/Semester:	3 rd Sem.
Course/Subject:	CDMA Systems	Duration:	03:00 Hrs.
Course/Subject Code:	13130302	Maximum Marks:	100
Roll No.:			
be made within 15 minu 3. Attempt five questions i of a question should be a	the Question paper. It that they have been provided correct questes of the commencement of the exam. No n all. Q.1 is compulsory. Attempt other five attempted in sequential order. Marks are in the diagram wherever required.	complaint(s) will be entertained the questions selecting one question	ereafter.
b) What is CDM.c) What is Soft H	ency hopped spread spectrum? A Systems?		(4x5=20)
	<u>UNIT-I</u>		
Q.2 What are the various	Spreading /coding tradeoffs, describe	them?	(20)
	OR		
Q.3 Write short note on I. Shift register so II. Non- Linear so			(2x10=20)
	<u>UNIT-II</u>		
Q.4 What is fading. Wha	t are the different types of fading in CI OR	DMA? Explain in details.	(20)
Q.5 Write short notes on a) Performance and b) Multi-user detection	alysis of cellular CDMA		(2x10=20)
	<u>UNIT-III</u>		
Q.6 Why power control i suitable diagram.	s essential in CDMA systems? Explain	reverse link closed loop power	control with (20)
	OR		` ,
Q.7 What are different ty	pes of Hand-off in CDMA System? Gi	ive benefits of soft hand-off.	(20)
	UNIT-IV		
Q.8 Explain the third gen	eration CDMA systems in details. OR		(20)
Q.9 Write short notes on (a) Multi Carrier CI (b) IS-95	followings:	***	(2x10=20)

Program:	M. Tech (ECE)	Year/Semester:	3 rd Sem,	
Course/Subject:	Computer Communications	Duration:	03:00 Hrs.	
Course/Subject Code:	13130304	Maximum Marks:	100	
Roll No.:		*	1	
made within 15 minutes of the 3. Attempt five questions in all	t they have been provided correct question pane commencement of the exam. No complaint I. Q.1 is compulsory. Attempt other four questipated in sequential order. Marks are indicated	t(s) will be entertained therest stions selecting one question	after.	

Q.1	Explain the following: (4)	(5=20)
	a) Explain CDMA	
	b) What is IEEE standard for LANs	
	c) What do you understand by Cryptography	
	d) Explain Network Layout	
	<u>UNIT-I</u>	
Q.2	Write a note on any two reference models	(20)
Q.3	Write note on	(20)
	(a) FDM	
	(b) Bandwidth Transmission Media	
	(c) ISDN	
	(d) Circuit & Packet switching	
	UNIT-II	
Q.4.	Discuss data link design issues in detail	(20)
0.5		
Q.5.	Discuss IP addressing schemes	(20)
	<u>UNIT-III</u>	
Q. 6	Explain file transfer & access management	(20)
Q. 7	Write note on	(20)
	(a) Key distribution problem (b) Public cryptography (c) Authentication and Digital signatures	
	<u>UNIT-IV</u>	
Q. 8	Explain Bernoulli Trials-Markov chains	(20)
Q. 9	Explain (1) Poly 1 (1)	(20)
	(a) Delay Little's Formula (b) Burke's Theorem	

Program:	M. Tech (ECE)	Year/Semester:	3 rd Sem.
Course/Subject:	Digital Signal Processors & Applications	Duration: Maximum Marks:	03:00 Hrs.
Course/Subject Code:	13130308		
Roll No.:			
3 Attempt any five question			
Parts of a question should	ons. Q.1 is compulsory. Attempt other five questions be attempted in sequential order. Marks are indicated a th diagram wherever required.		from each uni
Parts of a question should	d be attempted in sequential order. Marks are indicated a th diagram wherever required.	gainst each question.	from each un
Parts of a question should 4. Illustrate your answer with	d be attempted in sequential order. Marks are indicated a th diagram wherever required.	gainst each question.	

	a) Explain ALO	
	b) Explain Loop with example	
	c) What are IIR filter	
	d) What are AGU	
	<u>UNIT-I</u>	
Q.2	Write a brief note on addressing modes	(20)
Q.3	3 Explain Harvard architecture	(20)
	<u>UNIT-II</u>	
Q.4	Explain in detail various instruction format for DSP 56002	(20)
Q.5	Write note on (a) Instructions Set	(20)
	(b) Bit manipulation with example (c) Arithmatic Logic instructions	
	<u>UNIT-III</u>	
Q.6	6 Explain design of FIR filters	(20)
Q.7	7 Synthesis IIR filters	(20)
	<u>UNIT-IV</u>	
Q.8	8 Explain TMS-320 architecture	(20)
Q.9	Write a note on instruction set of TMS-320 architecture	(20)
