Registration No :					
Total Nu	ımber of Pages : 02	210	210	210	<sup>210</sup> B.Tech
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	/** Se	mester Regu	ilar Examinat COMPUTING		
	BRANCH : AE			D, BIOTECH, CH	IEM.
CIV	/IL, CSE, ECE, EEE,	•	•	•	•
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210	210	_ 10	: 3 Hours	210	210
			Marks : 100		
Answe	er Question No.1 (Pa		ODE : E348	, any FIGHT fro	m Part-II and any
Allowe	i Question No.1 (i a	•	rom Part-III.	, any Eloni no	in i ait-ii aila aily
	The figure:	_		n indicate marks	<b>3.</b>
			Part- I		
<b>Q1</b> 10	Short Answer Type (	Questions (An	swer All-10)	210	210 <b>(2 x 10</b>
a)	What is Hebb's learning	ng rule?			
b)	What is the converger	nce criterion of	genetic algorit	hm?	
c)	What is the importance				
d)	Differentiate between				
e)	Distinguish between b				
f)	Draw the architecture				
210 <b>g)</b>	Name the different crossover operators used in GA.				210
h)	List different activation				
i) j)	Single pint crossover in What is angular fuzzy			mutation – wny?	
J)	What is angular luzzy	Set! Give an e	zampie.		
00	<b>5</b>		Part- II		· (T . I . ) (0 . 0)
Q2	Focused-Short Answ		=		of Twelve) (6 x 8
210 <b>a)</b> <b>b)</b>	How XOR gate problem be implemented using ANN?  Explain the architecture of adaptive resonance theory with the help				help of a
D,	schematic diagram.	are or adapti	ve resoriance	alcory with the	ncip of a
c)	How does universal a soft computing?	pproximation p	olay an importa	ant role in hybrid a	approach of
d)	Give the solution Trav	eling Salesmar	n problem usin	g genetic algorithn	٦.
e)	Using the inference approach, calculate the membership values for the fuz triangular shapes (L, R and T) for a triangle with angles 45°, 65° and 70°.				
<b>f</b>		•	_	=	
210 <b>f</b> )	A neuron with 3 inputs has the weight vector $w = [0.1 \ 0.3 \ \pm 0.2]$ . The act function is binary sigmoidal activation function. If input vector is $[0.8 \ 0.6]$				
	then find the output ne			,	1,
g)	Explain the architectu	re of adaptive i	resonance the	ory with the help o	f schematic
	diagram.		, -		
h)	Elaborate on Neuro-fu	•	-		
i) :\	Explain Non-linear lea			ovamnia	
j) <sup>210</sup> k)	What is learning from Give the Hypothesis		•	•	ealing and
K)	Stochastic Models. Ex		DIOCKS E DEIIII	e Simulateu Allii	caminy and
I)	Explain rule induction	•			

210	<b>Q3</b> 10	Long Answer Type Differentiate betwee making with an exar	(16)	210				
	Q4	Draw the ART2 netwit satisfy the condition	(16)					
	Q5	Explain the back p			used in multi I	ayer feed	(16)	
210	<b>Q6</b> <sup>210</sup>	What are the various Applications of Soft		chniques useful for	Soft computing?	Write the	(16)	210
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