H.T.No.
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EE1915 GEC-R14

## M. Tech II Semester Regular/Suppl. Examinations, July 2016 ARTIFICIAL INTELLIGENCE TECHNIQUES

(Control Systems)

(Control Systems)			
Time: 3 Hours		Max. Marks: 60	
<b>Note:</b> Answer any <b>FIVE</b> questions. All Questions carry equal Marks. $5 \times 12 = 60M$			
1. Draw and Explain Biologic	al Neural Network model. E	Explain how Neural	
Network is formulated using	the Biological Network?	(12M)	
2. a) List the applications of Ar	tificial Intelligent Techniques	? (6M)	
b) Explain different learning	; algorithms in Neural Networ	k (6M)	
3. a) Explain the limitations o	f perception convergence theo	orem. (6M)	
b) Compare the discrete and	l continuous perception netw	orks (6M)	
4. Explain Back propagation algorithm in detail			
5. Explain about Hope field networks			
6. Define the following			
a) Fuzzy logic	b) Degree of membership		
c) Linguistic variables	d) Membership function	(12M)	
7. a) Explain in detail various	defuzzification methods	(6M)	
b) Compare Crisp set and Fo	uzzy set	(6M)	
8. Explain about fuzzy based P	I and PID controller	(12M)	

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