Code.No: 07A60504

R07

SET-1

III B.TECH – II SEM EXAMINATIONS, DECEMBER - 2010 ARTIFICIAL INTELLIGENCE AND NEURAL NETWORKS (COMPUTER SCIENCE AND ENGINEERING)

Time: 3hours Max.Marks:80

Answer any FIVE questions All questions carry equal marks

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1.a)	What is AI?	ro. 01
b)	Explain how mathematics has contributed as a foundation of AI.	[8+8]
2.a) b)	Explain the breadth first search. Explain the minimax procedure with an example.	[8+8]
3.	What is a knowledge-based agent? Explain it in detail, using "Wumpus World" a example.	as an [16]
4.a) b)	Explain unification in first order logic. Explain resolution in first order logic.	[8+8]
5.a) b)	Explain the Hebb's law, delta learning law and instar learning law. Explain the functional units of ANN.	[8+8]
6.a)	What is a linear associative network? Explain any one method used by it to determ weights by learning for pattern association.	mine
b)	What is linear separability in pattern classification? Explain with an example.	[8+8]
7.a) b)	What is meant by 'basins of attraction'? Explain the energy analysis of the Hopfield network.	[6+10]
8.	Explain the analysis of feature mapping networks.	[16]

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