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THE NATIONAL INSTITUTE OF ENGINEERING, MYSURU – 8 (An Autonomous Institute Affiliated to VTU, Belagavi)

Eighth Semester B.E Degree Examination, May/June 2019

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EC0442	Artificial Intelligence	
L		

Time: 3 Hrs Max. Marks: 100

Q. No.	Cognt. Level	COs	Questions		
1. a)		CO1	Illustrate the steps of means-ends analysis with an example.	8	
b)	}	CO1	Illustrate the steps to determine whether the goal has been achieved or not.		
2. a)	L3	CO2	Illustrate depth first search procedure with an example.	8	
b)	 	CO2	Illustrate breadth first search procedure with an example.	7	
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2.c)	L3	CO2	Illustrate hill-climbing procedure with an example.	8	
d)		CO2	Illustrate non-deterministic search procedure with an example.	7	
3. a)	L3	CO2	Illustrate min-max algorithm with an example.	8	
b)	L3	CO2	Illustrate alpha-beta pruning with an example.	. 7	
4. a)	L2	CO4	Explain different types of learning.	8	
b)	L2	CO4	Explain the steps to generate identification tree.	7	
5. a)	L3	CO3	Illustrate the steps to represent specifications of neurons to build arithmetic constraint propagation nets.	8	
b)	L2	CO3	Explain back propagation procedure with relevant equation.	7	
			OR	<u> </u>	
5. c)	L2	CO3	Explain convolution neural network.	8	
<u>d)</u>	L2	CO3	Explain learning by genetic algorithms.	7	
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6. a)	L2	CO4	Write a short note on SVM.	8	
b)	L2	CO4	Write a short note on statistical learning.	7	
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7. a)	L1	CO1	Define AI:	2	
b)	L1	CO2	Explain AO* algorithm.	2	
c)	L1	CO3	Define expert system.	2	
d)	L1	CO4	Define neural network.	2	
e)	Ll	CO4	Define rule based systems.	2	