University of Mumbai Examination 2020

Program: Computer Engineering: SEM VII R2016 scheme CBCGS

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: CSC703 and Course Name: Artificial Intelligence and Soft Computing

Time: 80 Mins. (16.10-17.30)

	Max. Marks: 40					
*	* Required					
1.	Email *					
2.	Exam Seat No: *					
3.	Name of Student: *					
4.	Name of Examination: *					
	Mark only one oval.					
	R16(CBCGS)					
5.	Name of Course: *					
6.	Semester: *					

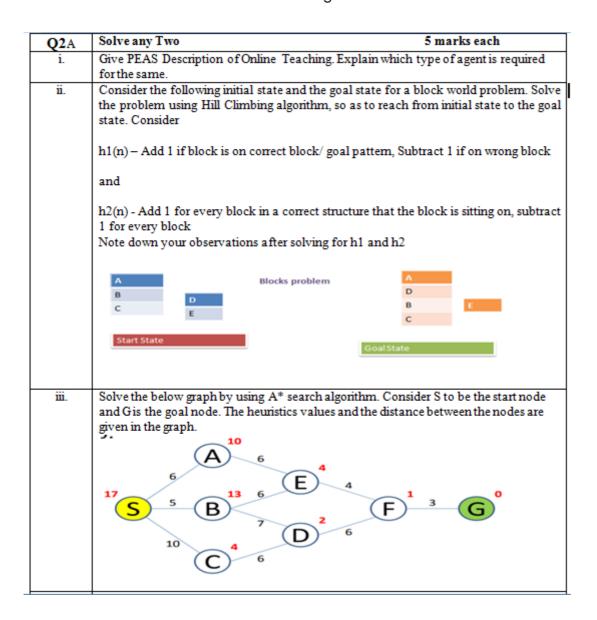
- 7. Name of Subject: *
- 8. Exam Date: *

Mark only one oval.

13/01/2021

Descriptive Questions

Combine answers of 2A and 2B in one single PDF.



Q 2 B	Solve any One 10 marks each	
i.	Consider the following axioms:	
	 Every child loves Santa. Everyone who loves Santa loves any reindeer. Rudolph is a reindeer, and Rudolph has a red nose. Anything which has a red nose is weird or is a clown. No reindeer is a clown. Scrooge does not love anything which is weird. (Conclusion) Scrooge is not a child. 	
	Solve by resolution.	
ii.	What is perceptron? Give a perceptron model for XOR and AND gate.	

Files submitted:

10. Q.3 *

Q3		
A	Solve any Two	5 marks each
i.	For the following network calculate the net input given to the neuron. 0.3 0.5 0.1 0.6 0.0 0.0 0.0 0.0 0.0 0.0	e output
ii.	Explain Genetic algorithm steps.	
iii.		
В	V	
i.	Consider two inputs I1 and I2. These two inputs have the following linguistic states: I1: L(low), M(Medium), H(High) I2: NR(Near), FR (Far), VF(Very Far) The output of any i-th rule can be expressed by the following: yi = f (I1, I2) = aji I1 + bki I2; where, j,k = 1,2,3. Suppose: a1i = 1, a2i = 2, a3i = 3 if I1 = L, M and H, respectively. b1i = 1, b2i = 2, b3i = 3 if I2 = NR, FR, and VF, respectively. Calculate the output of FLC for I1 = 6.0 and I2 = 2.2 using Takagi and Sugeno approach.	
ii.	~ **	

Files submitted:

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