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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019

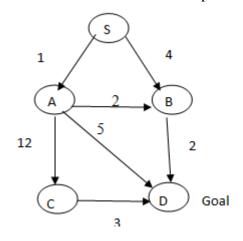
Course Code: IT407

Course Name: Knowledge Engineering

Max. Marks: 100 Duration: 3 Hours

PART A

		Answer any two full questions, each carries 15 marks.	Marks
1	a)	Define the term 'Artificial Intelligence'.	(3)
	b)	Write initial state, goal state, set of rules for "Water Jug Problem"	(5)
		You are given two jugs, a 4-gallon one and a 3-gallon one, a pump which has unlimited	
		water which you can use to fill the jug, and the ground on which water may be poured.	
		Neither jug has any measuring markings on it.	
		How can you get exactly 2 gallons of water in the 4-gallon jug?	
	c)	Differentiate A* and AO* algorithm	(7)
2	a)	Write the algorithm for 'Generate and Test'.	(4)
	b)	Illustrate the use of Dictionaries in Python with example.	(4)
	c)	Explain MINIMAX search procedure with example	(7)
3	a)	Suggest some solutions for the issues of simple Hill Climbing algorithm	(4)
	b)	What is simulated annealing?	(4)
	c)	Find out the best cost and best path for following graph	(7)



Heuristic valu	tes
S	7
A	6
В	2
С	1
D	0

PART B

Answer any two	full	questions,	each	carries	<i>15</i>	marks
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