

B.M.S. COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous Institute, Affiliated to VTU)

Department Name: Computer Science and Engineering

INTERNALS-1

Course Code: 20CS56PCAIP Course Title: Artificial Intelligence

Semester: V Maximum Marks; 40 Date: 21/10/2020

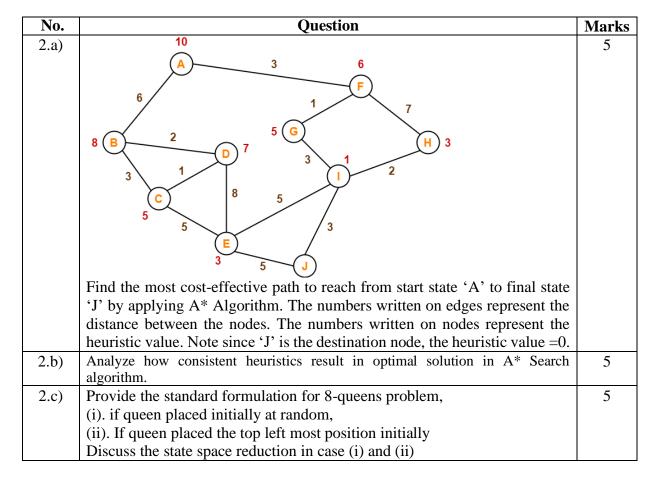
Faculty Handling the Course: Dr. Jyothi S Nayak and Dr. Kavitha Sooda

Instructions: *Instructions: Internal choice is provided in Part C.*

PART -A (5 marks)

N	. Question	Marks
1	Describe the interaction with vacuum cleaner agent with its environment.	5

PART -B (15 marks)



No.		Questio	n		Marks
3.a)	Apply the Greedy Best First search algorithm for 8 Puzzle problem with Start state and Goal state shown below. Also draw the states resulted from the Start state to the Goal state.				10
	3	1	2		
		4	6		
	7	5	8		
	Start state				
	1	2	3		
	4	5	6		
	7	8			
		Goal s	tate		
		OR			
3.b)					10
	Discuss the Frontier queue sty is the time and space complexi	le, Whether ty? How is	r it is complete s it better than	e and optimal? Wi Breadth first searc	hat h?

