KSIT Bangalore

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ASSIGNMENT QUESTIONS

Academic Year	2021-2022		
Batch	2019-2022		
Year/Semester/section	7 B		
Subject Code-Title	18CS71-ARTIFICIAL INTELLIGENCE & MACHINE		
Name of the Instructor	BEENA K	Dept	CSE

Assignment No: 1	**Total marks:10**
Date of Issue: 11.11.2021	**Date of Submission: 23.11.2021**

Sl.No	Assignment Questions	K Level	CO	Marks
1.	**Discuss** A* algorithm briefly	K2	CO1	1
2.	**Solve** the water jug problem with set of assumptions given below. Initial state(0,0) Goal state(x,1) Assumptions: Two jugs of capacity 5 gallon and 7 gallon are given(x,y), there are no measuring unit, water can be thrown on to ground and water can be filled by pump	K2	CO1	1
3.	**Summarize** various problem characteristics.	K2	CO1	1
4.	**Evaluate** the following cryptarithmetic problem using constraint satisfaction technique SEND +MORE ----------- MONEY	K2	CO1	2
5.	**Solve** Tic Tac Toe problem with a algorithm.	K2	CO1	1
6.	**Construct** Candidate elimination algorithm	K2	CO2	2
7.	Analyse find –S algorithm, compute the hypothesis that satisfied follow training dataset instances. <table><tr><td>*Origin*</td><td>*Manufacturer*</td><td>*Color*</td><td>*Decade*</td><td>*Type*</td><td>*Example Type*</td></tr><tr><td>Japan</td><td>Honda</td><td>Blue</td><td>1980</td><td>Economy</td><td>Positive</td></tr><tr><td>Japan</td><td>Toyota</td><td>Green</td><td>1970</td><td>Sports</td><td>Negative</td></tr><tr><td>Japan</td><td>Toyota</td><td>Blue</td><td>1990</td><td>Economy</td><td>Positive</td></tr><tr><td>USA</td><td>Chrysler</td><td>Red</td><td>1980</td><td>Economy</td><td>Negative</td></tr><tr><td>Japan</td><td>Honda</td><td>White</td><td>1980</td><td>Economy</td><td>Positive</td></tr></table>	K3	CO2	2

	Japan	Toyota	Green	1980	Economy	Positive			
	Japan	Honda	Red	1990	Economy	Negative			

Signature of Course In charge   **Signature of HOD**

	Japan	Toyota	Green	1980	Economy	Positive
	Japan	Honda	Red	1990	Economy	Negative