

Reg. No.:

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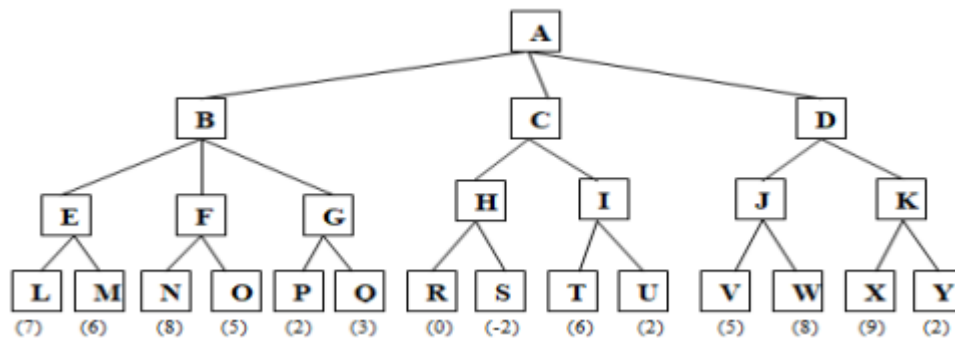
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**Mid-Term Examinations – October 2021**

Programme	: (Computer Science & Engineering) B.Tech	Semester	: Fall 2021-22
Course	: Fundamentals in AI and ML	Code	: CSA2001
Faculty	: Jyoti Chauhan	Slot/ Class No.	: B11+B12+B13/0041
Time	: 1 ½ hours	Max. Marks	: 50

**Answer all the Questions**

Q.No.	Sub. Sec.	Question Description	Marks
1		Explain different characteristics of an AI problem used for analyzing it to choose most appropriate method.	10
2		(a) Explain state space approach in solving any AI problem. Discuss this for water jug problem. (b) Determine whether goal driven or data driven search would be preferable for solving error in a computer. State the reason also.	5 5
3		Discuss the constraint satisfaction problem for solving graph coloring problem.	10
4		Consider the following game tree in which static evaluation score are all from the players point of view: static evaluation score range is s (+10 to -10)	



Suppose the first player is the maximizing player. What move should be chosen?

5		Write a prolog program to enter three sides and find whether given triangle is right triangle or not.	10
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