Reg. No.:
Name:

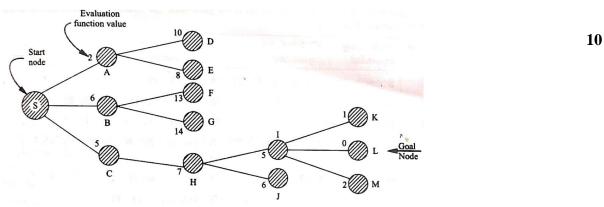


Mid-Term Examinations – October 2021

Programme	:	B.Tech.	Semester	:	Fall 2021-22
Course	:	FUNDAMENTALS IN AI and ML	Code	:	CSA2001
Faculty	:	Dr. Rakhi	Slot/ Class No.	:	A11+A12+A13/0039
Time	:	1 ½ hours	Max. Marks	:	50

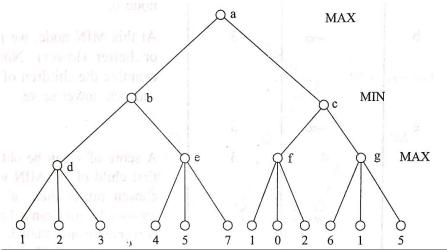
Answer all the Questions

Q.No.	Sub. Sec.		Question Description	Marks			
1		Write the PEAS sequence for the following agents:					
•		(i) Playing Cricket Match					
		(ii) Completion of softwar	re project	10			
		(iii) Online shopping for m	obile phone	10			
		(iv) Performance in Exami	nation				
		(v) Offline tutor					
2	(a)	Explain the below mentioned AI	Definition modules using suitable example:				
		(i) Systems that act like h	umans	5			
		(ii) Systems that think rational systems that the systems are size of the systems are size of the systems are size of the systems.	onally				
	(b)	How can you solve a problem problem in this context.	using production system? Explain the tic-tac-toe	5			
3		What will be the output (Seque algorithms on the search tree:	nce of states) if you perform the following search				
		(i) Breadth First Search					
		(ii) Depth First Search					
		(iii) Best First Search					
		Evaluation function value					



Perform Min-Max strategy to find the values of nodes from a-g and also find out which nodes will be pruned using Alpha-Beta Pruning:

10



- 5 Assume the following facts:
 - (a) Steve only likes easy courses.
 - (b) Science courses are hard
 - (c) All courses in the basket weaving department are easy
 - (d) BK123 is a basket weaving course.

Use resolution to answer the question:

"What course would Steve like?"



10