

Mid Term Examination- June 2024

Slot		A1+A2+TA1+TA2	Semester		Summer Semester 2023-24
Course Code		BCSE306L	Class Number		CH2023240700544
Course Title	:	Artificial Intelligence	Faculty	:	Dr.S.Abirami
Time	:	1½ Hours	Max. Marks	:	50

Answer ALL Questions

Q.	Question Text	Marks		
No.				
1.	A tourist agent seeking to improve their business outcomes intends to create an e-tourism application for their customers. This application is supposed to leverage the travel history			
	of their prior and present customers to forecast customer behaviour and deliver personalized travel recommendations to customers. Identify and justify the appropriate type of AI environments applicable for this application.			
2.	In the following graph 'S' is the start state and 'G' is the goal state. With neat diagrams apply any two uninformed search strategies to estimate a route to reach the goal. Also, compare the strategies in terms of their complexity and justify the best one that you would choose based on the total edge distance.	10		
	2.0 D 1.0 H 1.0 2.0 S 1.0 G 1.0 S 1.			
3.	Consider the following directed graph, having 'A' as the starting node and 'G' as the goal node, with edge costs as mentioned, and the heuristic values (straight line distance from	10		

