

	Reg. No.:	
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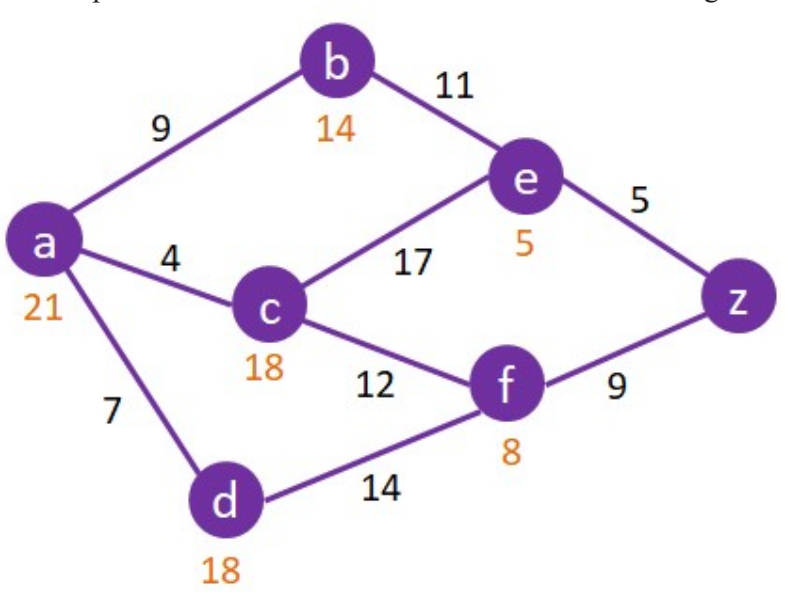


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Mid-Term Examinations – October 2021

Programme	: B. Tech.	Semester	: Fall 2021-22
Course	: Fundamentals in AI & ML	Code	: CSA2001
Faculty	: Dr. Mahendra Pratap Yadav	Slot/ Class No.	: A11+A12+A13/BL2021 221000050
Time	: 1 ½ hours	Max. Marks	: 50

Answer all the Questions

Q. No.	Sub. Sec.	Question Description	Marks
1		What Comprises to Artificial Intelligence? Explain the advantages and disadvantages of the Artificial Intelligence in details.	10
2	(a)	Explain any five application areas where Artificial Intelligence will play an important role to solve their problems.	5
	(b)	Explain the concept of Agent Environment in the context of Artificial Intelligence. As per Russell and Norvig, write the all features of environment for agent point of view.	5
3		<p>What is admissible? Prove that A* is admissible approach. Find the most cost-effective path to reach from start state A to final state Z using A* Algorithm.</p> 	10
4		What is BFS algorithm? Write the pseudo code for the BFS algorithm.	10
5		What is MINIMAX approach? Apply alpha-beta pruning over below diagram.	10

