Reg. No.:

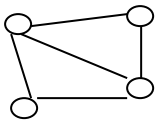
Name :

VIT® BHOPAL www.vitbhopal.ac.in

Mid-Term Examinations – November 2021

Programme	:	**B.Tech.**	Semester	:	**Fall 2021-22**
Course	:	**Fundamentals in AI & ML**	Code	:	**CSA2001**
Faculty	:	**Mr. E. Silambarasan**	Slot/ Class No.	:	**F11+F12+F13/0763**
Time	:	**1 ½ hours**	Max. Marks	:	**50**

Answer all the Questions

Q.No.	Sub. Sec.	Question Description	Marks
1		Explain in detail about Agent architecture	**10**
2	(a)	Illustrate intelligent backtracking method in Graph colouring 	**5**
	(b)	Define Constraint Satisfaction Problem. Explain with example Sudoku problem.	**5**
3		Explain Alpha-beta pruning with an example.	**10**
4		Define the syntactic elements of first-Order logic.	**10**
5		Discuss about problem solving approaches to AI problem and Solve Tower of Hanoi Problem	**10**

⇔⇔⇔