

Reg.Number

Programme	Continuous Assessment Tes B. Tech (CSE with Specialization)	Control of the Contro	124	Winter 23-24
Course Code & Course Title	: BCSE306L, Artificial Intelligence	Semester	:	C2+TC2
Faculty (s)	: Dr. Vergin Raja Sarobin M, Dr. Vijayalakshmi, Dr. Rajesh Kumar, Dr. Vedhapriyavadhana, Dr. Tamilarasi, Dr. Abirami S, Dr. Krithiga R, Dr. Reena Roy, Dr. Vijayaprabakaran, Dr. Christopher Columbus, Dr. Lakshmi Harika P, Dr. Poonkodi, Dr. Prem Sankar	1785	+	CH2023240501390, 1394, 1424, 1416, 1418, 1408, 1406, 1414, 1429
ime :	1 ½ Hours	Max. Marks	s	50

General Instructions:

- Write only your registration number on the question paper in the box provided and do not write other information.
- Only non-programmable calculator without storage is permitted

0.11	Answer ALL Questions Question Description	Marks
	How will Bob emerge victorious if Bob has to make the next move if there is a friendly game of Tic-Tac-Toe between Alice(X move - Max) and Bob (0 move Min). They both intend to outsmart each other and secure a win. With a provided intermediate state, they are making their moves, their proficiency in the Minima Algorithm will be key in determining the outcome.	d

X		0
X	0	
0		

A Factory has decided to optimize the layout of machines on the factory floor to reduce the total distance traveled by workers during production. The factory floor is depicted as a grid, with each cell representing a potential machine location. The factory consists of 8 floors, each with one machine initially placed. The diagram illustrates the initial machine arrangement. Rearrange the machines so that each is on its respective floor as shown in goal state. You can perform two operations: i) Move one machine to the ground floor open area, and ii) move one machine onto another. Apply both local and global heuristics

heuristic yields sup	rior results.	your solution and determine which	
MI	M8		
M8	M7		
M7	M6		
M6	M5		
M5	M4		
M4	M3		-
M3	M2	The same of the last	
M2	M1		
Initial state	Goal state		
x2 = 9823 $x3 = 3423$ $x4 = 2963$ a) Evaluate the fitted b) Find the average	9 6 1 8 less of each individual by show	ing all your workings. (3 Marks) Is (2 Marks)	
c) Perform the sele	ction, crossover, material	ations (3 Marks)	15
Consider the follo a) Team Indi	Indies	. Idiac	
d) Semi-Fina d) India score	d 250 runs, West Indies scores		