

Reg.Number

Marks

Programme Course Code	Continuous Assessment Tes : B. Tech (CSE with Specialization)	Semester	1	Winter 23-24
& Course Title		Slot		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	Class Nbr(s)		CH2023240501390, 1394, 1424, 1416, 1418, 1420, 1398, 1422, 1401, 1403, 1406, 1414, 1429
ime :	1 ½ Hours	Max. Mark	s	50

General Instructions:

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Write only your registration number on the question paper in the box provided and do not write other information.

Answer ALL Questions

Only non-programmable calculator without storage is permitted

Question Description Q.No How will Bob emerge victorious if Bob has to make the next move if there is a 10 1.

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 Minimax Algorithm will be key in determining the outcome.

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

	M1	M8		
	MI8	M7		
	M7	M6		
	M6	M5		
	M5	M4		
	M4	M3		
	M3	M2		1
	M2	M1		
	Initial state	Goal state		
b) I	Perform the selection of the selection of the follow Team India	Indies	ons (5 Marks)	
Indi e) f)	as last 7 wicket	s. nich scored the maximum run w are same,the team which lost n	vins. ninimum wickets win the match.	