С	Reg. No. :										
<b>Question Paper Code: 95C04</b>											
B.E./B.Tech. DEGREE EXAMINATION, MAY 2024											
Sixth Semester											
	Computer Science	and Busi	ness S	System	ms						
	19UCB603-ARTIF	ICIAL IN	TELI	LIGE	NCE	E					
	(Regu	ations 20	9)								
Duration: Three h	ours					N	laxir	num	100	Ma	rks
	Answer .	ALL Ques	tions								
	PART A -	$(5 \times 1 = 5)$	Marks	5)							
1. The action of	f the Simple reflex agent co	mpletely c	epend	ds up	on					CC	D1 U
(a) Perceptio	on history	(b) C	urrent	t perc	ceptio	on					
(c) Learning	theory	(d) Utility functions									
2. What is stat	e space?									CO	l U
(b)The who	e problem	(c) Your Definition to a problem									
(d)Problem	you design	(d) Representing your problem									
3. Which searc	Which search strategy is also called as blind sea									CO	l U
(a) Uninform	ned search	(b) Informed search									
(c)Simple re	flex search	(d) All of the mentioned									
4. Which of th	Which of the Following problems can be modeled as CSP?									CC	D1 U
(a) 8-Puzzle	problem	(b) 8-Queen problem									
(c) Map col	(c) Map coloring problem			(d) All of the mentioned							
5. Which of th propositiona	e following is a refutation co l logic?	omplete in	ferenc	ce pro	ocedi	ure f	or			CC	)1 U
(a) Clauses	(b) Variables	(c) Propos	tiona	l reso	olutio	on	(	(d) P	ropo	sitio	n
	PART – B	$(5 \times 3 = 15)$	Mark	xs)							
6. Explain why	Explain why problem formulation must follow goal formulation						C	201	U		
7. List the step	s involved in simple probler	n-solving	techni	ique.					C	CO1 1	U

8.	Hov	v does one characterize the quality of a heuristic?	CO1 U		
9.	List	out the types of assignment in CSP problem and explain each.	CO1 U		
10.	Wri	te down the basic syntactic elements of first order logic	CO1 U		
		PART – C (5 x 16= 80 Marks)			
11.	(a)	Explain in detail about the types of agent with neat diagram	CO1 U	(16)	
		Or			
	(b)	Describe in detail about the types of task environment	CO1 U	(16)	
12.	(a)	Write a short notes on state space representation and explain the terms goal test, path, initial state and successor function Or	CO1 U	(16)	
	(b)	"Production systems determine the course of action in particular situation" – Justify	CO1 U	(16)	
13.	(a)	Explain in detail about different types of Hill climbing search Or	CO1 U	(16)	
	(b)	Discuss in detail about the various uninformed search strategies	CO1 U	(16)	
14.	(a)	Explain in detail about Alpha-Beta pruning Or	CO1 U	(16)	
	(b)	Discuss in detail about expert system and give a brief note on MYCIN	CO1 U	(16)	
15.	(a)	Illustrate first order logic to represent Knowledge with examples Or	CO1 U	(16)	
	(b)	Discuss the problems in resolution using prepositional logic and illustrate predicate logic with suitable examples	CO1 U	(16)	