ı	Regi	stration No :								
Total Number of Pages : 01 B.Tech										
An	swei	3 rd r Question No.1 (Part The figur	-1) whi	TIFICIA BR Max Tir Q.C ch is	AL INT ANCH Mark ne : 3 ODE : compr om Pa	TELLIC I: CSE IS: 100 Hours HB94 ulsory art-III.	EENCE D O any E	EIGHT	Γ from Part-II a	PCS3D001
Q1	a) b) c) d) e) f) g) h) i)	What is Tower of Hanoi? Define Artificial Intelligence What is a uniform cost search algorithm? What is a breadth-first search algorithm? What is an A* algorithm search method? What is a bidirectional search algorithm? How are game theory and AI related? Define NLP Compare between Best-first Search and Depth-first Search							(2 x 10)	
Q2	a) b) c) d) e) f) g) h) i) k) l)	Part- II Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) What is an expert system? What are the characteristics of an expert system? Discuss on Statistical Natural Language Processing Explain Semantic Nets with example Compare between Procedural Versus Declarative Knowledge Discuss on Heuristic Search Techniques Discuss about Constraint satisfaction problem. Differentiate Supervised and Unsupervised learning. Discuss the use of CYC in Al Compare between knowledge and data. Explain Nonlinear Planning Using Constraint Posting. Write short notes on Nonlinear Planning Using Constraint Posting Why Constraint Satisfaction is required? explain in detail.								velve) (6 x 8)
Q3	a) b)	Only Long Answer Ty Discuss the issues of keeping the control of t	nowledg	ge repr	esenta	ver Any tion.			•	(8) (8)
Q4	a) b)	Define and explain the component of planning graph. example. Explain the use of planning graph in providing better heuristic estimation with suitable							(8) table (8)	
Q5	a) b)	Explain learning in deci Describe multilayer fee				ample.	How it	is use	d to take decisio	on. (8)
Q6	a) b)	Discuss in detail the syl		-	•			itable	examples.	(8) (8)