B.E. (Computer Science Engineering) Sixth Semester (C.B.S.) Artificial Intelligence

	Pages: ne:Thr					TKN/KS/16/7 Max. Marks		
	Notes	s: 1. 2. 3. 4. 5. 6. 7. 8. 9.	All questions carry marks as Solve Question 1 OR Question 5 OR Question 5 OR Question 5 OR Question 7 OR Question 7 OR Question 9 OR Question 9 OR Question 11 OR Question 9 OR Question 11 OR Question 1	ons No ons No ons No ons No ons No ions No eatness ver nec	. 2. . 4. . 6. . 8. . 10. o. 12. and adequate dimens			
1.	a)	Define	AI. Explain typical Task Doma	ains of	AI.		7	
	b)	What	is production system? Explain it				6	
2.	a)	Explai	n different problem characterist)R h example.		8	
	b)	What	s state space? Explain with exa	mple.			5	
3.	a)	Differ	entiate between Breadth first an	d Dept	h first search.		6	
	b)	State the difference between simple hill climbing and steepest ascent hill climbing. OR						
4.	a)	Explai	n when would best first search			n first search.	6	
	b)	What	s Heuristic search? Explain in c	letail.			7	
5.	a)	Write	short note on predicate and prep	osition	nal logic.		6	
	b)	What	is knowledge? Explain the types		owledge. DR		8	
6.	a)	Explai system	n with the help of block diagrar 1.	n, diffe	erent components of a	knowledge – based	8	
	b)	1) E	short note on : any three. cackward chaining.	2) 4)	Semantic nets. Scripts.		6	
7.	a)	How t	o resolve the issue of uncertain	knowle	edge?		7	
	b)	What	s rational decisions? For what p	-			6	
8.	c)	Evelo	n Baye's Rule.	C)R		6	
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	b)	Write short note on:1) Axioms of probability.2) Bayesian Networks.3) Fuzzy Logic.	7		
9.	a)	What is learning? Draw and explain the block diagram of general learning model.	9		
	b)	What are factors affecting learning performance? State its performance measures. OR	5		
10.	a)	Explain learning by discovery.			
	b)	What are the different types of learning? Explain each one with example.	8		
11.	a)	What do you mean by expert system shell? State its advantages.			
	b)	Why it is important that an expert system to be able to explain "why and how question related to problem solving session?" OR			
12.	a)	Give applications of expert system.			
	b)	Write short note on any four.			
		1) Knowledge Based System.	2		
		2) Automated Reasoning.	2		
		3) Natural Language Processing.	2		
		4) Knowledge Engineering.	2		
		5) Knowledge Acquisition	2		
