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

P. Pages: 2 Time: Three Hours						TKN/KS/16/7 Max. Marks	KS/16/7493 ax. Marks : 80	
	Notes	3: 1. 2. 3. 4. 5. 6. 7. 8. 9.	All questions carry marks Solve Question 1 OR Que Solve Question 3 OR Que Solve Question 5 OR Que Solve Question 7 OR Que Solve Question 9 OR Que Solve Question 11 OR Qu Due credit will be given to Assume suitable data whe Illustrate your answers wh	stions No. stions No. stions No. stions No. stions No. estions No neatness anever nece	2. 4. 6. 8. 10 12. and adequate dimensissary.			
1.	a)	Define	AI. Explain typical Task Do	omains of A	AI.		7	
	b)	What is	s production system? Explai	n its charac			6	
2.	a)	Explain	different problem character	ristics with	example.		8	
	b)	What is	s state space? Explain with e	xample.	0,00		5	
3.	a)	Differe	ntiate between Breadth first	and Depth	first search.		6	
	b)	State th	e difference between simple	hill climb		ent hill climbing.	7	
4.	a)	Explain	when would best first search	h be worse	e than simple breadth	first search.	6	
	b)	What is	Heuristic search? Explain i	n detail.			7	
5.	a)	Write s	hort note on predicate and p	repositiona	al logic.		6	
	b)	What is	knowledge? Explain the ty	pes of kno	•		8	
6.		Explair system.	with the help of block diag			knowledge – based	8	
	b)	1) Ba	hort note on : any three. ackward chaining. ames.	2) 4)	Semantic nets. Scripts.		6	
7.	a)	How to	resolve the issue of uncerta	in knowled	dge?		7	
	b)	What is	What is rational decisions? For what purpose it is used?					
8.	a)	Explair	ı Baye's Rule.	0	K		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					
10.	a)	Explain learning by discovery.					
	b)	What are the different types of learning? Explain each one with example.					
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	6				
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				
		Write short note on any four. 1) Knowledge Based System. 2) Automated Reasoning. 3) Natural Language Processing. 4) Knowledge Engineering. 5) Knowledge Acquisition	2				
