(20 Marks)

Intelligence editors.

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019 Artificial Intelligence

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

		PART - A	
1	a.	What is an artificial intelligence? What are the task domains of artificial intelligence	ce?
	u.	What is an artificial interrigence. What are the task demand of artificial section of the sectio	(08 Marks)
	b.	Explain why AI is important.	(08 Marks)
	C.	Discuss the underlying assumption of AI.	(04 Marks)
2	a.	There are 2 jugs, 4 gallon jug and a 3 gallon jug. Neither has any measuring man	
		There is a pump that can be used to fill the jugs with water. How can get exactly 2 water into the 4 gallon jug? Write the production rules for this water jug problem.	
	b.	What is production system? Explain in detail.	(05 Marks)
	c.	Explain DFS and BFS in detail.	(07 Marks)
	C.	Explain D16 and D16 in detail.	(0, 1,111111)
3	a.	Explain approaches to knowledge representation.	(10 Marks)
	b.	Explain procedure versus declarative knowledge.	(10 Marks)
4	a.	Write note about instance and ISA relationships.	(10 Marks)
	b.	Explain the resolution in propositional logic.	(10 Marks)
PART – B			
5	a.	Explain Baye's theorem. What is a rule based system?	(10 Marks)
	b.	Explain briefly (i) Bayesian network (ii) Shafer theory.	(10 Marks)
,		What is an expert system? What are its types?	(10 Marks)
6	a. b.	Explain the process of knowledge acquisition.	(10 Marks)
	υ.	Explain the process of knowledge dequisition.	(20.1.20010)
7		Explain briefly the salient features of the following typical expert system used in	practice.
	a.	MYCIN	
	b.	PROSPECTOR	
	c.	DENDRAL	
	d.	PUFF	(20 Marks)
0		Fundamental Communication	
8	0	Explain the following:	
	a. b.	Perceptrons Learning Automata	
	υ.	Zearing Automatu	(20 Morks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.