## 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.

## Seventh Semester B.E. Degree Examination, Jan./Feb. 2021 **Artificial Intelligence**

Time: 3 hrs.

Max. Marks:100

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

		PART - A	
1	a.	What is an AI? What are the underlying Assumption?	(10 Marks)
	b.	What is the importance of AI and explain AI and related fields.	(10 Marks)
2	a.	What is production system and its characteristics?	(10 Marks)
	b.	Explain Hill climbing and its types.	(10 Marks)
3	0	Explain the following with an example	
3	a.	i) Procedural knowledge	
		ii) Simple relational knowledge	(10 Marks)
	b.	Compare and contrast the Forward and Backward reasoning Technique.	(10 Marks)
			(2011241213)
4	a.	Explain Syntax and Semantics for propositional logic.	(10 Marks)
	b.	Properties of WFFs.	(10 Marks)
		DADE D	
5	a.	PART – B Explain the Baye's theorem based on probability.	(10 Maulas)
3	b.	Briefly explain Dempster Shafer theory.	(10 Marks) (10 Marks)
	0.	Briefly explain beinpster bhater theory.	(10 Marks)
6	a.	What is an expert system? What are its types?	(10 Marks)
	b.	Explain the process of knowledge acquisition.	(10 Marks)
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7	a.	Briefly explain MYCIN. And what are its variants.	(10 Marks)
	b.	Explain Dendral and Puffs.	(10 Marks)
8	100	Explain:	
U	9	Learning automata	

- Learning automata
- Genetic algorithm
- Intelligent Editors.

(20 Marks)