PRN:			Course Code :	PCA204
First Year **MCA** End Semester Examination Summer 2024				
Introduction to AI				
Day and Date: [illegible] JUN 202[illegible], Tuesday			Max Marks:	**100**
Time : 02:00PM To 05:00PM			Duration:	**03** hrs

Instructions: 1) **Each question is compulsory.**
2)**Right figure indicates full marks.**

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Define AI and explain advantages and disadvantages of AI.	08	L2	CO2
	b)	Explain types of AI with an examples.	08	L2	CO2
		OR			
	b)	Write a note on production system classes, advantages and disadvantages of production system	08	L2	CO1
Q.2		**Attempt the following**			
	a)	State uninformed search and explain DFS and BFS with an example.	08	L1	CO3
	b)	Explain Mean-End Analysis with an example.	08	L3	CO2
		OR			
	b)	Illustrate the Best first and Beam algorithm with an example.	08	L3	CO3
Q.3		**Attempt any two from the following**			
	a)	Explain architecture of knowledge based agent and operation performed by KBA.	08	L2	CO3
	b)	Describe the technique of knowledge representation with suitable diagram.	08	L2	CO2
	c)	State knowledge acquisition and goals of knowledge acquisition.	08	L2	CO3
Q.4		**Attempt any two from the following**			
	a)	Define Propositional logic its syntax and types with proper examples.	08	L4	CO3
	b)	Describe unification with its conditions and algorithm.	08	L3	CO1
	c)	Illustrate Resolution in FOL with an example.	08	L2	CO2
Q.5		**Attempt any Two of the following**			
	a)	Define Reasoning and its types with an example	09	L2	CO3
	b)	Compare Deductive and inductive Reasoning.	09	L3	CO3
	c)	State truth maintenance system and its roles.	09	L2	CO3
Q.6		**Attempt any Two of the following**			
	a)	Describe with suitable diagram components of Expert System.	09	L2	CO3
	b)	Discus the capabilities of expert system with its advantages an disadvantages.	09	L2	CO4
	c)	Write a note on Development of expert system and Applications of Expert system.	09	L3	CO4

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