Sl. No.

21CSC3E1CL

M.Sc. III Semester Degree Examination, April/May - 2023
COMPUTER SCIENCE
Artificial Intelligence

Time : 3 Hours   Maximum Marks : 70

Note : *Answer **any five** full questions. (Q.No **1** is **Compulsory**)*

1.	(a)	Define AI. Explain AI Goals.	**7**
	(b)	Discuss on issues in design of search programs.	**7**
2.	(a)	Explain the role of AI in mobile Payment and E-commerce.	**7**
	(b)	Give any real-life example of AI usage.	**7**
3.	(a)	Explain about problem reduction in AI.	**7**
	(b)	Explain cryptarithmatic problem with suitable example.	**7**
4.	(a)	Write the approaches of knowledge representation.	**7**
	(b)	Differentiate between Forward v/s Backward Chaining.	**7**
5.	(a)	Explain cut and I/O operations in Prolog with an example.	**7**
	(b)	How can we demonstrate relationships in Prolog. Write a pseudo-code for it.	**7**
6.	(a)	Explain the process of image-based search in AI.	**7**
	(b)	Differentiate between BFS and DFS.	**7**
7.	(a)	Explain Representing simple facts in logic with suitable example.	**7**
	(b)	How can we represent relationships by using "trees" and "lists".	**7**
8.		Write a short note for the following.	
	(a)	Prolog.	**5**
	(b)	Hill Climbing.	**5**
	(c)	AI Techniques.	**4**

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