



Register No.

SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore - 641 107



AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

INTERNAL ASSESSMENT EXAMINATION - I

V Semester

Computer Science and Technology

Common to B.E., Computer Science and Engineering

19CS507- Artificial Intelligence

Regulations 2019

Duration: 1 Hour 30 Minutes
Session : FN

Date : 04.09.2024
Maximum : 50 Marks

Answer ALL questions

PART A - (5 X 2 = 10 marks)

Q.No	Question	M	CO	BL
1.	List the level of model in AI.	2	CO-1	L-1
2.	What is a Production System?	2	CO-1	L-1
3.	Difference between BFS and DFS.	2	CO-1	L-2
4.	Identify the importance of Knowledge Representation.	2	CO-2	L-2
5.	List some of the matching technique in Knowledge Representation.	2	CO-2	L-1

PART B - (2 X 13 = 26 marks)

6.	(a) Construct Means Ends Analysis and its example.	13	CO-1	L-3
	(b) Explain Heuristic Search Techniques? Classify various Heuristic Search Techniques in detail.	13	CO-1	L-2
7.	(a) (i) Difference between Procedural knowledge vs Declarative knowledge. (ii) Explain about Partial Matching in detail.	6 7	CO-2 CO-2	L-3 L-2
	(b) Explain in detail about Fuzzy and RETE Matching Algorithm with appropriate example.	13	CO-2	L-2

PART C - (1 x 14 = 14 Marks)

8.	(a) Consider a water jug problem. You are given 2 jugs a 4 gallon and 3 gallon jugs. Neither has any measuring mark in it. There is a pump that can be used to fill the jugs with water. How can you get exactly 2 gallon of water into a 4 gallon jug? State the production rules for the water jug problem.	14	CO-1	L-4
	(b) Analyze various Control/Search Strategies in production system in detail.	14	CO-1	L-4

STAFF IN CHARGE

HOD

PRINCIPAL