Question Paper Code:CS603PC

R22

Model Question Paper
ANURAG Engineering College
(An Autonomous Institution)
III B.Tech. II Semester Regular Examinations, June -2025
ARTIFICIAL INTELLIGENCE
(CSE)

Time: 3 Hours **Max.Marks:60**

Section – A (Short Answer type questions)				**(10 Marks)**
Answer All Questions		**Course Outcome**	**B.T Level**	**Marks**
1.	Define artificial Intelligence?	CO1	L1	1M
2.	What is Global Maxima in Hill climbing Algorithm?	CO1	L1	1M
3.	Define Pruning?	CO2	L1	1M
4.	What is Sentence in propositional logic?	CO2	L1	1M
5.	What is a predicate in First-Order Logic (FOL)?	CO3	L1	1M
6.	Define unification in the context of First-Order Logic.	CO3	L1	1M
7.	What is Ontological Engineering in the context of knowledge representation?	CO4	L1	1M
8.	What is the difference between categories and objects in knowledge representation?	CO4	L1	1M
9.	What does Bayes' Rule allow us to compute in probability theory?	CO5	L1	1M
10.	What is the condition for two random variables to be independent in probability theory?	CO5	L1	1M
Section B (Essay Questions)				
Answer all questions, each question carries equal marks.				**(5 X10M = 50M)**
11.	Explain about types of agents in AI?	CO1	L2	10M
	OR			
12.	Explain about Un-informed Search strategies in AI?	CO1	L2	10M
13.	What is Alpha Beta Pruning explains with example.	CO2	L2	10M
	OR			
14.	Define constraint satisfaction problem?	CO2	L2	10M
15.	What is unification and lifting in AI with examples	CO3	L2	10M
	OR			
16.	What is first-order logic? Explain the syntax and semantics in AI?	CO3	L3	10M
17.	Compare and contrast different classical planning approaches?	CO4	L2	10M
	OR			
18.	Explain the concept of Ontological Engineering in knowledge representation?	CO4	L2	10M
19.	What is the concept of independence in probability theory? How do you test if two events are independent?	CO5	L3	10M
	OR			
20.	What is Bayes' Rule? Explain and It's Use?	CO5	L3	10M