ACE
Engineering College
(An Autonomous Institution)

ACE-R20

Question Paper Code: CM601PC

Semester End Examination
III B. Tech- II Semester Regular Examination- July -2023
Artificial Intelligence
(COMPUTER SCIENCE ENGINEERING AI & ML)

Time: 3 Hours **Max. Marks: 70**

H. T. No										

Note: This question paper contains two parts A and B.
1.Part A is compulsory which carries 20 marks. Answer all questions in Part A.
2. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b as sub questions

PART- A MARKS: 10*2=20

Q.No: 1	Question	Marks
a)	What is Depth-first search	2
b)	What are Online Search Agents	2
c)	What are Knowledge-Based Agents	2
d)	What is Effective Propositional Model Checking	2
e)	Define bayes rule.	2
f)	What is meant by Knowledge representation in First-Order Logic	2
g)	What is Planning	2
h)	What is Hierarchical Planning	2
i)	What are Decision Trees	2
j)	What is Bayes theorem	2

PART- B MARKS: 5*10=50

Q.No	Question Description	Marks
2.	Explain Hill Climbing with an example	10
	(OR)	
3	Explain Simulated annealing search	10
4	What are Horn clauses? Explain with examples	10
	(OR)	
5.	Explain Alpha–Beta Pruning	10
6	List the differences between Propositional vs. First-Order Inference	10
	(OR)	
7	Explain Knowledge Engineering in First-Order Logic	10
8	Explain Multi agent Planning	10
	(OR)	
9	Explain Planning and Acting in Nondeterministic Domains	10
10	Explain the Semantics of Bayesian Networks	10
	(OR)	
11	Explain Supervised Learning	10