Code No.: DS602PC

R20

H.T.No.

R 8

(20 Marks)

CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-II-Semester End Examinations (Regular) - May- 2023 ARTIFICIAL INTELLIGENCE

(CSD)

[Max. Marks: 70] [Time: 3 Hours]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)
	Line Heating of AI2	[2M]
1. a)	List applications of AI? Define state space search.	[2M]
b) c)	What is a predicate logic statement?	[2M] [2M]
d)	What is semantic network?	[2M]
e)	List applications of expert systems?	[2M]
f)	What is the Dempster theory of Shater?	[2M]
g)	What is Supervised Learning?	[2M]
h)	What is Neural Network?	[2M]
i)	Define NLP (Natural language Processing).	[2M]
j)	What is case grammar?	(70.75 1.)
	PART-B	(50 Marks) [10M]
2.	Explain different Categories of Heuristic Search Techniques in AI?	[TOIVI]
	UK	[10M]
3.	What are the main sub areas of artificial intelligence? Explain.	1
No.	Discuss syntax and semantics of Propositional logic with examples.	[10M]
4.	Discuss syntax and semantics of Propositional Togothern	
5.	Discuss about Knowledge Representation using Frames.	[10M]
3.		[10M]
6.	Explain the Expert System Architecture with the help of a neat diagram.	[IUIVI]
0.	UR	[10M]
7.	Discuss the Bayesian Belief networks with an example.	[1011]
		[10M]
8.	What is machine learning? Explain about inductive and deductive learning. OR	a1 = 1700
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9.		[5M]
a) b)	the state of the s	[5M]
U,		[10M]
10	List and explain the applications of Natural Language Processing.	[IONI]
50050	OR	[10M]
11	. Give a brief note on Semantic Analysis.	[]
