

GANPAT UNIVERSITY
U. V. PATEL COLLEGE OF ENGINEERING
B. TECH (COMPUTER ENGINEERING/INFORMATION TECHNOLOGY/ COMPUTER
ENGINEERING-ARTIFICIAL INTELLIGENCE)
SEM – VI SECOND INTERNAL EXAMINATION – MAY 2022
2CEIT602: ARTIFICIAL INTELLIGENCE

Time: 1 Hour**Total Marks: 20**

Instructions: (1) Figures to the right indicate full marks.
 (2) Be precise and to the point in your answer.

- Q.1** Develop a perceptron for the given function with bipolar inputs and bipolar outputs. Check that, “Is it linearly separable or not?” [5]

x1	x2	t
1	1	-1
-1	1	1
1	-1	1
-1	-1	-1

- Q.2** Do as directed: [6]

- A. Explain the following term with examples: Marginal distribution, Joint distribution, Conditional probability distribution.
- B. What is Fuzzy Logic? How does it differ from Crisp Logic? Explain the meaning of soft, hard and partial in terms of ‘Truth’ and ‘False’ with an example.

- Q.3** What is error in the perceptron? Explain error of a perceptron by implementing AND function for two inputs in detail. [4]

- Q.4** Define Markov Decision Process (MDP). Write all Value functions defined for a finite horizon in MDP. [5]

END OF PAPER