GUJARAT TECHNOLOGICAL UNIVERSITY
BE MINOR - SEMESTER–VII EXAMINATION – SUMMER 2024

Subject Code:117AG01   **Date:29-05-2024**
Subject Name:Applications of AI
Time:02:30 PM TO 05:00 PM   **Total Marks:70**
Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Simple and non-programmable scientific calculators are allowed.**

			Marks
Q.1	**(a)**	What is natural language processing?	**03**
	(b)	Explain the linguistic aspects of natural language processing.	**04**
	(c)	What is quantum computing? Explain the different applications of quantum computing.	**07**
Q.2	**(a)**	Write the definition of facial emotion recognition.	**03**
	(b)	Which emotions can be recognized by facial emotion recognition?	**04**
	(c)	How facial emotion recognition works?	**07**
		OR	
	(c)	Explain facial recognition vs. facial emotion recognition.	**07**
Q.3	**(a)**	How AI can affect disease detection & diagnosis?	**03**
	(b)	Explain the evolution of AI in investment banking.	**04**
	(c)	How to build an AI-based disease detection system?	**07**
		OR	
Q.3	**(a)**	What types of diseases can AI algorithms help detect early?	**03**
	(b)	How is AI used in investment banking?	**04**
	(c)	Explain the smart investment analysis using AI applications.	**07**
Q.4	**(a)**	What can service organizations do with trusted AI and Data?	**03**
	(b)	Explain supply chain management system.	**04**
	(c)	What are the benefits of AI in customer service?	**07**
		OR	
Q.4	**(a)**	What is AI in customer service?	**03**
	(b)	Explain AI optimized hardware.	**04**
	(c)	Give the examples of AI and automation in customer service.	**07**
Q.5	**(a)**	What is machine learning?	**03**
	(b)	How AI/ML to be used in social technology?	**04**
	(c)	Explain any machine learning algorithm in detail.	**07**
		OR	
Q.5	**(a)**	What is block chain?	**03**
	(b)	Explain the role of AI/ML in smart solution.	**04**
	(c)	Explain the different types of learning in machine learning.	**07**

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