DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE				
	Regular and Supplementary Summer 2024			
	Course: B. Tech. Branch: ECE/ Electronics & Computer Engineering Semester: vi			
	Subject Code & Name: BTECPC602 Artificial Intelligence and Machine Learning			
	Max Marks: 60 Date: 15/06/2024 Dura	tion: 3 Hr.		
	 Instructions to the Students: All the questions are compulsory. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question. Use of non-programmable scientific calculators is allowed. Assume suitable data wherever necessary and mention it clearly. 			
		(Level/CO)	Marks	
Q. 1	Solve Any Two of the following.		12	
A)	Define: Artificial Intelligence. State what is need of AI?	(Remember)	6	
B)	Differentiate between strong and weak artificial intelligence	(Analyze)	6	
C)	What is an agent in AI? What are the types of agent program in any intelligent system?	(Understand)	6	
	5			
Q.2	Solve Any Two of the following.		12	
A)	Sate and explain Heuristic Search with example.	(Remember)	6	
B)	Discuss any 3 types of Search Algorithms in AI	(Understand)	6	
C)	What is a TABU Search? Explain in detail.	(Understand)	6	
Q. 3			12	
A)	What is Machine Learning? Explain types of machine learning.	(Remember)	6	
B)	Describe what is a decision tree with an example?	(Understand)	6	
C)	What is the difference between classification and regression?	(Analyze)	6	
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Q.4	Solve Any Two of the following.		12	
A)	What is Evaluation Metrics? Explain types of Evaluation Metrics	(Remember)	6	
B)	Explain what is Confusion Matrix	(Understand)	6	
C)	How to Choose the Best Evaluation Metrics to evaluate ML models	(Evaluation)	6	
Q. 5	Solve Any Two of the following.		12	
(A)			6	
B)	Explain what is linear regression with types of Linear Regression? Illustrate what is Gradient Descent?	(Remember)	6	
		(Understand)		
C)	What is the difference between Linear regression and Logistic regression	? (Analyze)	6	
	*** End ***			