cal energibles before		Harcourt Butler Technical University  Kanpur				<b>I</b>	MID SEM	
Branch		MCA Program			ľ	MCA		
Course Name		Machine Learning Semest		Semester			IV	
Course Code		ECA 554 Year		2023-24		)23-24		
Time: <b>1.00Hr</b>		Answer All Questions Maxim		Maximum	n Marks 15		15	
	edge Level	K1: Remembering	K3: Applying		<b>K5:</b> Ev	K5: Evaluating		
(KL)		<b>K2:</b> Understanding	K4: Analyzing		<b>K6:</b> Creating			
Q. No		Quest	ions	Marks	COs	KL		
1	What are the ingredients of Machine Learning? Discuss different types of tasks that could be accomplished with machine learning.				3	CO1 CO2	K2	
2	Discuss some important issues encountered during feature engineering.				3	CO1	K2	
3	Describe the Gradient descent algorithm for multivariate regression. What are its pros and cons?				3	CO1	K4	
4	Describe the cost function used for logistic regression.				3	CO2	K4	
5	Explain the regularization approach to overcome the problem of overfitting in machine learning. Write down the cost function with regularization term in multivariate regression. Show the effect of regularization over performance diagrammatically.						K3 K4	