

	<b>DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE</b> <b>Regular and Supplementary Summer 2024</b> <b>Course: B. Tech. Branch : AI&amp;DS/CSE &amp; Allied Semester :VI</b> <b>Subject Code &amp; Name: BTAIPE603B Recommended Systems Max Marks: 60</b> <b>Date: 19/06/2024 Duration: 3 Hrs.</b>			
	Instructions to the Students: 1. All the questions are compulsory. 2. 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. 3. Use of non-programmable scientific calculators is allowed. 4. Assume suitable data wherever necessary and mention it clearly.			
		CO	Level	Marks
Q. 1	Solve Any Two of the following			12
A)	Describe the basic models of recommended system.	(CO1)	BL2	6
B)	Explain the challenges in recommended system.	(CO1)	BL2	6
C)	Discuss in detail cold start problem and privacy in recommended system.	(CO1)	BL2	6
Q. 2	Solve Any Two of the following			12
A)	Explain in detail user-based collaborative filtering.	(CO2)	BL2	6
B)	Discuss in detail Naive Bayes collaborative filtering.	(CO2)	BL2	6
C)	Describe the singular value decomposition in collaborative filtering.	(CO2)	BL2	6
Q. 3	Solve Any Two of the following			12
A)	Discuss in detail basic components of content-based systems.	(CO3)	BL2	6
B)	Differentiate between content-based and collaborative recommendations.	(CO3)	BL2	6
C)	Explain in detail knowledge representation and reasoning in recommended system.	(CO3)	BL2	6
Q. 4	Solve Any Two of the following			12
A)	Discuss the concept of temporal collaborative filtering in recommended system.	(CO4)	BL2	6
B)	Describe the concept of discrete temporal models in recommended system.	(CO4)	BL2	6
C)	Explain in detail the location-aware recommender systems.	(CO4)	BL2	6
Q. 5	Solve Any Two of the following			12
A)	Explain in detail general goals of evaluation design in recommended system.	(CO5)	BL2	6
B)	Summarize design issues in offline recommender evaluation.	(CO5)	BL2	6
C)	Discuss in detail limitations of evaluation measures in recommended system.	(CO5)	BL2	6
	***End***			