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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) / (AI&ML) (Sem.-6)

RECOMMENDER SYSTEM

Subject Code : BTAIML605-20

M.Code : 93404

Date of Examination : 27-05-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION - A

1. Write briefly :

- a) Underfitting
- b) User-based CF
- c) Clustering
- d) Datasets
- e) Prediction models
- f) Linear Optimization
- g) Learning to Rank
- h) Active learning
- i) Content based recommender system.
- j) Feature selection

SECTION - B

2. What is the use of dimension reduction? How it is performed?
3. Write a note on ensembles of classifiers.
4. Describe the working of nearest-neighbor collaborative filtering.
5. Discuss the use of contextual information models for recommender system.
6. List out various applications and examples for recommender system.

SECTION - C

7. Differentiate between music and video based recommender system.
8. Explain the working of data mining methods for recommender system.
9. What is hybrid recommender system? How they are developed? Explain its use.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.