

**CDOE**  
**MASTER OF COMPUTER APPLICATIONS (CBCS-2018 COURSE)**  
**M.C.A. Sem - V : WINTER :- 2021**  
**SUBJECT: ELECTIVE-III : INFORMATION SYSTEMS - RECOMMENDER**  
**SYSTEM**

**Day : Friday**  
**Date 25-02-2022**

**W-21106-2021**

**Time : 10:00 AM-01:00 PM**  
**Max. Marks: 70**

**N.B.**

- 1) Attempt any **FOUR** questions from Section – I and any **TWO** questions from Section – II .
- 2) Figures to the right indicate **FULL** marks.

**SECTION – I**

- Q.1** Differentiate between user based and item based nearest neighbour recommendation. (10)
- Q.2** Describe interactions with constraint based recommenders. (10)
- Q.3** Explain ubiquitous environment along with challenges. (10)
- Q.4** State types of hybridization; explain any two hybridization approaches. (10)
- Q.5** Write notes on any **THREE** of the following (10)
- a) Knowledge representation and reasoning
  - b) Similarity based retrieval
  - c) Model based nearest neighbour recommendation
  - d) Alternate evaluation design.

**SECTION – II**

- Q.6** Explain case based recommender system in detail with its advantages and disadvantages. (15)
- Q.7** Describe Recommender Systems in Antiviral Drug Discovery. (15)
- Q.8** Discuss explanation in collaborative filtering recommenders. (15)

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