



BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – B.Sc.(IT)-AI-2020

Course Name – Recommender Systems

Course Code - BAID502A

(Semester V)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Explicit feed back is analysed as
 - a) simple type
 - b) moderate type
 - c) complex type
 - d) None of these
- (ii) The model expands the user analysis interest by employing th
 - a) large
 - b) moderate
 - c) limited
 - d) none
- (iii) The biggest flaw in the memory based collabortive model is not producing
 - a) Any scaling
 - b) Any upgradation
 - c) Any modiication
 - d) None of these
- (iv) recomender engine is classified as
 - a) content type
 - b) product type
 - c) both types
 - d) None of these
- (v) Modl based collaborative approaches adopts
 - a) Matrix inverse algorithm
 - b) Matrix factorization algorithm
 - c) Matrix multiplication algorithm
 - d) None of tehse
- (vi) Purchaser's reaction has been taken into consideration while suggesting the
 - a) Specific product
 - b) general product
 - c) varieties of product
 - d) None of these
- (vii) The user information has been classified as
 - a) explicit
 - b) implicit
 - c) explicit and implicit
 - d) None of these
- (viii) Model based recomender sstem supports the
 - a) interaction model
 - b) Normal model
 - c) Latent interaction models
 - d) None of these
- (ix) Recomender system mhas been grouped into
 - a) 4 types
 - b) 5 types
 - c) 6 types
 - d) None of these
- (x) The collaborative mode is considered to have the

- a) higher bias and lower variance
 - b) higher bias and higher variance
 - c) lower bias and lower variance
 - d) None of these
- (xi) Purchaser's reaction has been taken into consideration while suggesting the
- a) Specific product
 - b) general product
 - c) varieties of product
 - d) None of these
- (xii) Data mining is determined as
- a) Data excavation
 - b) Knowledge search
 - c) Data filtering
 - d) None of these
- (xiii) Identify the recommender system
- a) Movie viewing suggestions
 - b) Computer system
 - c) Web based tour booking system
 - d) None of these
- (xiv) The common practice in the data mining is
- a) Data preprocessing before model building
 - b) Data analysis
 - c) Data manipulation
 - d) None of these
- (xv) Knowledge in data mining is interpreted as
- a) characterisation
 - b) generalisation
 - c) Expansion
 - d) None of these

Group-B

(Short Answer Type Questions)

3 x 5=15

- 2. Explain the data pre-processing techniques (3)
- 3. Propose the multimode recommendation in the real-life scenario (3)
- 4. Explain the social tagging recommender systems (3)
- 5. Discuss about the TF in terms of the documents and terms inside them (3)
- 6. Compare between the collaborative and content-based filtering in the recommender system (3)

OR

- Explain the Hybrid recommender systems (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

- 7. State the significance of the TF_IDF function and the relation with similarity measure (5)
- 8. Justify the analysis part carried out in the recommender systems (5)
- 9. Evaluate the different methods of learning user profiles in the recommender systems (5)
- 10. Explain the ranking in recommender system with a suitable example (5)
- 11. Explain the movie recommender system with the implicit and explicit specification (5)
- 12. Describe the data pre-processing steps used in data mining (5)

OR

- State the major ways of denoising the data of any types (5)
