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B.Tech. (CSE) (Professional Elective-IV)
7th Semester (G-Scheme)
Examination, July-2022
WEB MINING
Paper- PEC-CSE-405-G

Time allowed : 3 hours]

[Maximum marks : 75

Note : Attempt five questions in all, selecting at least one question from each section. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain the following:

(a) Data Mining

(b) Latent Semantic Indexing

(c) Clustering

(d) Heuristic Algorithms

(e) Text Mining

5×3=15

Section-A

2. Define web mining. Explain its various issues and challenges. 15

3. (a) What are the social impacts of Data Mining? 7

(b) Explain how data mining is used in health care analysis. 8

Section-B

4. (a) Differentiate between Information Retrieval and Web Search. 8
- (b) Explain the issues in the process of Information Retrieval. 7
5. Explain the components of Information Retrieval in detail. 15

Section-C

6. How we can classify optimization algorithms? Explain in detail. 15
7. Describe the following:
- (i) Evolutionary Computation Theory
- (ii) Discrete and Continuous Optimization Problems 15

Section-D

8. Explain the following:
- (a) Ant Colony Optimization 8
- (b) Artificial Bees algorithm 7
9. Discuss various application of Swarm Techniques in Different real-world problems: 15