

**B.Tech. (CSE)-Professional Elective - IV,  
7th Semester (G - Scheme)**

**Examination, December-2022**

**WEB MINING**

**Paper - PEC-CSE-405-G**

*Time allowed : 3 hours]*

*[Maximum marks : 75*

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*Note: Attempt five questions in all selecting at least one question from each section. All questions carry equal marks.*

1. Explain the following :

(a) Web Mining

(b) Web Spanning

(c) Collective intelligence

(c). Continuous Optimization Problems

(e) Web Content Mining

5×3=15

**Section - A**

2. Define Data Mining. Discuss about Spatial Data Mining.

15

3. Explain the following :

(a) Web Mining versus Data Mining

7

(b) Application Data Mining in Health Care

**Section - B**

4. Define IR with the help of its architecture. Give the functions of Information Retrieval System. 15
5. Discuss various Information Retrieval Models in detail. 15

**Section - C**

6. How the optimization algorithms are classified? Explain in detail. 15
7. Discuss the following :
  - (i) Discrete and Continuous Optimization Problems
  - (b) Social Behaviour as Optimization 15

**Section - D**

8. Explain the following :
  - (a) Particle Swarm Optimization 8
  - (b) Firefly algorithm 7
9. Discuss various application of Swarm Techniques in Different real-world problems.