ARYA College of Engineering (ACE)

Previously Known as Arya Institute of Engineering & Technology (AIET)

(Affiliated to RTU
Approved by AICTE, New Delhi)

REAP Code : 1011

- Main Campus, SP-40, RIICO Industrial Area, Delhi Road
  Kukas, Jaipur - 302028 | Tel Ph. 0141-2820700
- www.aryacollegejpr.com
- Toll Free : 1800 102 1044

Department of Computer Science and Engineering
IV Year VIII Semester
8EE6-60.2: Soft Computing

Note: Each assignment of Maximum Marks 10.All question carries equal marks.

ASSIGNMENT-I

Q.1 What are the advantages of using Soft Computing	BLT-1	CO-1
Q.2 Mention platforms which are used for large scale soft computing	BLT-2	CO-1
Q.3 Explain different Fuzzy models in soft computing?	BLT-4	CO-1
Q.4 What is the difference in soft computing and hard computing?	BLT-2	CO-1
Q.5 Explain fuzzy relations?	BLT-2	CO-1

ASSIGNMENT-II

Q1. What are the applications of fuzzy sets-fuzzy modeling	BLT-2	CO-2
Q2. List out the concept of Information processing fuzzy robotics	BLT-2	CO-2
Q3. What are the system integrators in soft computing.	BLT-4	CO-2
Q4. Mention some open source soft computing platform database?	BLT-2	CO-2
Q5. Mention the name of some classical operators	BLT-4	CO-2

ASSIGNMENT-III

Q1. What is the use of artificial neural networks in soft computing	BLT-1	CO-3
Q2. Explain ART Neural Network?	BLT-2	CO-3
Q3. Architecture of Feed forward Neural networks what are the resources that are provided by it?	BLT-2	CO-3
Q4. Explain supervised and unsupervised learning method?	BLT-4	CO-3
Q5. List down the basic characteristics of soft computing	BLT-4	CO-3

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ASSIGNMENT-IV

Q1.What are the issues of GA in practical implementation	BLT-1	CO-4
Q2. Explain PSO	BLT-2	CO-4
Q3. Define genetic algorithm vs traditional algorithm	BLT-2	CO-4
Q4. List down the Gradietn-based local optimization method?	BLT-2	CO-4
Q5. Write down the applications of PSO engineering	BLT-4	CO-4

ASSIGNMENT-V

Q.1 What are the Generation of Fuzzy Rules and membership functions?	BLT-1	CO-5
Q.2 Explain difference between fuzzification and Defuzzyfication in Neuro-fuzzy systems	BLT-2	CO-5
Q.3 Write down algorithm of PSO.	BLT-2	CO-5
Q.4 Define Applications of Ann.	BLT-4	CO-5
Q.5 What is the difference between simulated Annealing Network and Neural Network?	BLT-4	CO-5

*BLT: BLT shows the **Bloom's taxonomy** levels

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Department of Computer Science and Engineering
IV Year VIII Semester
8CS4-01: Big Data Analytics

Note: Each assignment of Maximum Marks 10.All question carries equal marks.

ASSIGNMENT-I

Q.1 What is Big Data and explain challenges of Big Data?	BLT-2	CO-1
Q.2 Describe Sources of Big Data?	BLT-3	CO-1
Q.3 Describe Problems with Traditional Large-Scale System?	BLT-2	CO-1
Q.4 Explain 3 Vs of Big Data?	BLT-3	CO-1
Q.5 Explain Hadoop Architecture with Diagram?	BLT-2	CO-1

ASSIGNMENT-II

Q.1. What is Weather Dataset?	BLT-2	CO-2
Q.2. Describe Map Reduce Architecture with Diagram?	BLT-3	CO-2
Q.3. Write Driver Code and Mapper Code of Hadoop MapReduce?	BLT-5	CO-2
Q.4 Explain Hadoop API for MapReduce framework (Old & New)?	BLT-2	CO-2
Q.5 Describe Record Reader and Combiner Code of Hadoop Map Reduce?	BLT-1	CO-2

ASSIGNMENT-III

Q.1 What do you mean by writable collections?	BLT-1	CO-3
Q.2 Define Custom Comparators?	BLT-1	CO-3
Q.3What is Writable Interface? Explain writable classes in detail.	BLT-1	CO-3
Q.4 Explain Writable Wrappers for Java Primitives?	BLT-2	CO-3
Q.5How can implement a Custom Writable?	BLT-4	CO-3

ASSIGNMENT-IV

Q.1 What is ABCs Pig Latin Application?	BLT-1	CO-4
Q.2 Explain Evaluating Local and Distributed modes of Running Pig Script?	BLT-2	CO-4
Q.3What are the limitations of the Pig?	BLT-1	CO-4
Q.4Explain Scripting with Pig Latin?	BLT-2	CO-4
Q.5How can check out the pig script interfaces?	BLT-4	CO-4

Department of Computer Science and Engineering
IV Year VIII Semester
8CS4-01: Big Data Analytics
ASSIGNMENT-V

Q.1 What is Hive clients?	BLT-1	CO-5
Q.2 Define Hive data types?	BLT-1	CO-5
Q.3What is Hive? Explain creating and managing database and tables.	BLT-2	CO-5
Q.4Explain how the Hive is put together?	BLT-2	CO-5
Q.5How the Hive data manipulation language works?	BLT-3	CO-5

*BLT: BLT shows the **Bloom's taxonomy** levels