**SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY**

DEPARTMENT OF MASTER OF COMPUTR APPLICATIONS

**V SEMESTER**

SUBJECT: Big Data Analytics Subject Code: 16MC5TE7

Regulation: R16

**UNIT-1**

1. What is a Set and specify the various set implementations in Java?
2. Write a Java Program for implementing Linked List operations
3. What is Map and Specify the various map implementations in Java
4. What do you mean by Linear and non-Linear data Structures? Specify the sets are comes under linear and non-Linear
5. Explain the advantages of Object Serialization in Java
6. What is Generic Programming?  Define different Generic Types
7. With Suitable example explain Generic Class and Methods

**UNIT-2**

1. Explain basic building blocks of Hadoop
2. Define installation and Configuration of Hadoop Cleuster
3. List the advantages of repetition statements?
4. Specify the role of name node and data node in HDFS?
5. Explain Architecture of HDFS?
6. How Google File System differs from Hadoop File System and explain the Google File System Architecture with neat example
7. Explain building blocks of HDFS

**UNIT-3**

1. Define the role of Driver Code, Mapper Code and Reducer Code with in Map Reduce Program Model
2. Explain the anatomy of Map Reduce Job run
3. List the components of a Map Reduce application the we can develop?
4. What happens in map reduce phase and reduce phase in hadoop map reduce frame
5. Develop Map Reduce Process for Word Count Problem
6. Differentiate Hadoop Old API and New API
7. What is Map Reduce?  Construct AWK script for finding maximum temperature for Weather Data set

**UNIT-4**

1. Discuss implementation of raw comparator and custom raw comparator with an example?
2. Describe Writeble class Hierarchy with a neat sketch?
3. Define the role of Driver Code, Mapper Code and Reducer Code with in Map Reduce Program Model
4. Explain the anatomy of Map Reduce Job run
5. List out the methods for Driver code, Mapper code and Reducer code
6. Give the Importance of Writable and Writable Comparable Interface
7. Differentiate Text and Java String in Hadoop
8. Explain different Writables

**UNIT-5**

1. Discuss the syntax of a Pig Program with suitable example?
2. Define various data types supported by Pig in its data model with an example?
3. Explain in detail how HIVE is different from PIG
4. How Pig Programs can packaged and explain the modes of running Pig Script
5. Explain the Architecture of HIVE with a neat sketch
6. Explain about various data types supported by HIVEQL with an example
7. Summarize the  install procedure of Apache Hive
8. Differentiate between Apache Pig and SQL
9. How can you construct expressions in Pig Latin