
 SURESH GYAN VIHAR UNIVERSITY <small>Accredited by NAAC with 'A' Grade</small>		INTERNAL ASSIGNMENT - 1
Course	MCA Plus	Spark on Azure HD
Semester	4	
Total Marks:	15	

Q.1. Write answers for any two questions from below. (5 Marks each – Word limit – 500)

- a) What is Spark? Describe the various components of it.
- b) What is Data Science. Explain the applications of Data science.
- c) what are the offerings of Apache Spark on HDInsight?

Q.2. Write short notes on all the following topics (1 Mark each - Word limit - 100)

- a) Explain the various Apache Spark Terminologies.
- b) Describe the Building blocks of Data Preparation.
- c) Explain Data Preparation Methodology.
- d) What is Collaborative filtering?
- e) What is Clustering in MLlib?

 SURESH GYAN VIHAR UNIVERSITY <small>Accredited by NAAC with 'A' Grade</small>		INTERNAL ASSIGNMENT - 2
Course	MCA Plus	Spark on Azure HD
Semester	4	
Total Marks:	15	

Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

- a) Explain Feature extraction and transformation.
- b) Explain Optimization.
- c) Explain the features of R Server on HDInsight.

Q.2 Write short notes on all the following topics. (1 Mark each - Word limit - 100)

- a) Explain Architecture of Spark SQL.
- b) What are the components of Spark SQL?
- c) Describe the various Spark Streaming operations.
- d) What is Dimensionality reduction in MLlib ?
- e) Explain Random data generation.