

INSTITUTE OF AERONAUTICAL ENGINEERING

(AUTONOMOUS) Dundigal, Hyderabad - 500 043

COMPUTER SCIENCE AND ENGINEERING

TUTORIAL QUESTION BANK

Course Title	BIG DATA AND BUSINESS ANALYTICS					
Course Code	ACS01	2				
Programme	B.Tech	B.Tech				
Semester	VII	VII CSE IT				
Course Type	Core					
Regulation	IARE -	R16	6			
			Theory		Practio	cal
Course Structure	Lectu	res	Tutorials	Credits	Laboratory	Credits
	3		1	4	3	2
Chief Coordinator	Ms. G Sulakshana, Assistant Professor					
Course Faculty	rse Faculty Mr. D Rahul, Assistant Professor					

COURSE OBJECTIVES:

The cours	The course should enable the students to:				
I	Optimize business decisions and create competitive advantage with Big data analytics.				
II	Understand several key big data technologies used for storage, analysis and manipulation of data.				
III	Recognize the key concepts of Hadoop framework, Map Reduce.				
IV	Demonstrate the concepts in Hadoop for application development.				

COURSE OUTCOMES:

CO 1	Understand the key issues in big data analytics and its associated applications in business analytics.
CO 2	Illustrate different types of big data technologies in Hadoop parallel world.
CO 3	Interpret disparate data storing in Hadoop Distributed File Systems (HDFS).
CO 4	Explore map reduce framework and optimize its jobs.
CO 5	Explain the basic methodologies of pig and hive.

COURSE LEARNING OUTCOMES (CLOs):

ACS012.01	Understand Define Big Data, importance and various sources of data.
ACS012.02	Describe the elements of big data-volume, variety, velocity and veracity.
ACS012.03	Understand the importance and challenges of big data.

ACS012.04	Define big data analytics advantages and its applications.
ACS012.05	Define distributed and parallel computing for big data.
ACS012.06	Analyze the core components of hadoop with basic commands.
ACS012.07	Explain the key features of hadoop in processing big data.
ACS012.08	Understand hadoop ecosystem with its animal planet.
ACS012.09	Explain the basic terminology of Hadoop Distributed File Systems (HDFS).
ACS012.10	Describe in detail about Distributed file system.
ACS012.11	Understand the concept of Hadoop cluster architecture.
ACS012.12	Explain a file in HDFS and represent the anatomy of file read and write.
ACS012.13	Understand Map Reduce and its qualities and retain advanced Map Reduce thoughts.
ACS012.14	Understand the architecture of Map Reduce framework.
ACS012.15	Demonstrate the techniques to optimize Map Reduce jobs.
ACS012.16	Understand the typical use occasions of input and output forms of Map Reduce.
ACS012.17	Demonstrate an ability to use frameworks like pig and hive to process Big Data and Analytics.
ACS012.18	Design the architecture of pig with its data types and operations.
ACS012.19	Explain the architecture of hive with different operations.
ACS012.20	Design and implement different technologies for processing big data in pig and hive.

TUTORIAL QUESTION BANK

	UNIT-I			
	INTRODUCTION TO BIG	G DATA		
	Part - A (Short Answer Que			
S No	QUESTIONS	Blooms Taxonomy Level	Course Outcomes	Course Learning Outcomes (CLOs)
1	Define data?	Remember	CO1	ACS012.03
2	Define the term information?	Understand	CO1	ACS012.03
3	Define big data?	Remember	CO1	ACS012.03
4	List out various data formats?	Remember	CO1	ACS012.03
5	Explain the life cycle of data?	Remember	CO1	ACS012.04
6	Explain briefly the challenges of big data?	Remember	CO1	ACS012.04
7	Illustrate the importance of big data?	Understand	CO1	ACS012.04
8	List out the characteristics of big data?	Understand	CO1	ACS012.04
9	Differentiate between analysis and analytics?	Understand	CO1	ACS012.04
10	Define big data analytics?	Remember	CO1	ACS012.05
11	List out various big data technologies?	Understand	CO1	ACS012.01
12	What are the various applications of big data analytics?	Understand	CO1	ACS012.01
13	Define streaming data?	Remember	CO1	ACS012.01
14	Define batch data?	Understand	CO1	ACS012.01
15	Define Business Intelligence(BI)	Understand	CO1	ACS012.01
16	List out various terminologies in Big Data environments?	Remember	CO1	ACS012.03
17	Enumerate the terms a. OLAP b. OLTP c. RTAP	Understand	CO1	ACS012.03
18	Illustrate the term Data center?	Understand	CO1	ACS012.04
	Part - B (Long Answer Que		G0.1	4 66012 02
1	Explain in detail about the various formats of data?	Remember	CO1	ACS012.03
	Describe in detail about the life cycle of data?	Understand	CO1	ACS012.03
	Explain the importance of big data?	Remember	CO1	ACS012.03
	List out the various challenges facing big data in detail?	Remember	CO1	ACS012.04
	List out and discuss the characteristics of big data?	Understand	CO1	ACS012.04
	Explain in detail about the difference between Traditional Vs Big data business approach?	Understand	CO1	ACS012.04
	Define what is the difference between analysis and analytics. Discuss the importance of big data analytics?	Remember	CO1	ACS012.05
	Explain the current big data technologies in detail?	Understand	CO1	ACS012.01
	Describe the various applications of big data analytics?	Understand	CO1	ACS012.01
	Explain in detail about the ETL (Extract, Transform and Load) system?	Remember	CO1	ACS012.01
	State the various drawbacks of using Traditional system approach?	Understand	CO1	ACS012.01
	Classify the Difference between Traditional Business Intelligence BI) versus Big Data?	Understand	CO1	ACS012.01
	Explain in detail the classification of Big Data Analytics from Analysis?	Remember	CO1	ACS012.03
	Elaborate the different terminologies in Big Data environments?	Understand	CO1	ACS012.03
15	Describe the Big Data Technology Landscape?	Understand	CO1	ACS012.04
	Part - C (Problem Solving and Critical T	Thinking Quest	ions)	
	Explain about the challenges facing in processing big data now a days?	Understand	CO1	ACS012.04
2	Explain in detail about the case study of big data solutions?	Remember	CO1	ACS012.05
3	Describe Traditional Vs Big data business approach with its drawbacks?	Understand	CO1	ACS012.01
4	Express the various formats of data and illustrate with an real time examples?	Understand	CO1	ACS012.01

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	4 Implement the Master-Slave architecture? Remember CO 3 ACS			1 ==== = ==== = ===== =
1 = 1	5 Illustrate what is commodity hardware? Remember CO 3 ACS	CO 3 ACS012.13	Remember	5 Illustrate what is commodity hardware?

6	Define what is block in HDEC9	I In donaton d	CO 2	ACC012 12
6 7	Define what is block in HDFS?	Understand	CO 3	ACS012.12
/	Why is a block in HDFS so large?	Understand	CO 3	ACS012.13
0	Lieud'Califa da continuda da LIDECO	Damandan	CO 2	A CC012 12
8	Identify block replication in HDFS?	Remember	CO 3	ACS012.12
9	Express Throughput?	Understand	CO 3	ACS012.12
10	State how HDFS stores massive data in Hadoop Cluster?	Understand	CO 3	ACS012.13
11	Define racks in Hadoop Cluster?	Understand	CO 3	ACS012.10
12	List out the real time examples for Hadoop Cluster?	Remember	CO 3	ACS012.12
13	Extrapolate the Master components: Name node, Secondary Node and JobTracker?	Remember	CO 3	ACS012.13
14	Extrapolate the Slave components :Data Node and Task Tracker?	Understand	CO 3	ACS012.12
15	Define what is Daemons in Hadoop Cluster?	Understand	CO 3	ACS012.13
	Part – B (Long Answer Que	estions)		
1	Explain the design of HDFS?	Understand	CO 3	ACS012.12
2	Elaborate the basic concepts of HDFS architecture in detail?	Understand	CO 3	ACS012.13
3	Explain the Hadoop Cluster in processing big data environment?	Understand	CO 3	ACS012.12
4	Describe when not to use Hadoop setup in recent scenario?	Understand	CO 3	ACS012.13
5	Explain Hadoop Clusters are arranged in several racks with an real time example?	Understand	CO 3	ACS012.12
11	Ellaborate the Hadoop Cluster architecture?	Understand	CO 3	ACS012.12
12	Derive the core components of Hadoop Cluster?	Understand	CO 3	ACS012.13
13	Explain in detail the Master and Slave components of Hadoop Cluster?	Understand	CO 3	ACS012.12
14	Create a file in HDFS, Explain the Anatomy of a File Read and Write?	Understand	CO 3	ACS012.13
15	Explain in detail the Hadoop Filesystem?	Understand	CO 3	ACS012.12
13	Part – C (Problem Solving and Crit			7105012.12
1	Illuatrate the Hadoop cluster is a special type of computational cluster designed for storing and analyzing vast amount of unstructured data in a distributed	Understand	CO 3	ACS012.12
	computing?			
2	Explain the Hadoop - Typical Workflow in HDFS?	Understand	CO 3	ACS012.13
3	Elaborate the Hadoop Daemon properties with real time scenario?	Understand	CO 3	ACS012.12
4	Explain the Hadoop processing of data in Cloud computing and AmazonEC2 with an examples?	Understand	CO 3	ACS012.13
	UNIT-IV			
	UNDERSTANDING MAP REDUCE I	FUNDAMENT	ΓALS	
	Part – A (Short Answer Que			
1	Define what is MapReduce?	Understand	CO4	ACS012.14
2	Explain about Data Locality in MapReduce?	Understand	CO4	ACS012.17
3	How to overcome the Faults and handling of Errors?	Remember	CO4	ACS012.14
4	How to explore the Scale-out architecture?	Remember	CO4	ACS012.14
5	Discuss the term List Processing?	Understand	CO4	ACS012.14
6	List out the real time examples of MapReduce?	Understand	CO4	ACS012.14
7	Define what happens if the mapper output does not match the reducer input?	Understand	CO4	ACS012.14
8	Define Input Split?	Understand	CO4	ACS012.14
9	Generalise the term Record Reader/Writer?	Remember	CO4	ACS012.14 ACS012.15
10	Design Map Phase?	Understand	CO4	ACS012.17
11	Design Reducer Phase?	Remember	CO4	ACS012.17 ACS012.14
12	Define Partitioners?	Remember	CO4	ACS012.14 ACS012.15
13	Explain the term YARN?	Remember	CO4	ACS012.13 ACS012.14
13	Explain the term TAINIV!	Kemember	CU4	ACS012.14

14	Define Container?	Remember	CO4	ACS012.14
15	Define Combiner?	Understand	CO4	ACS012.14
	Part – B (Long Answer Que	estions)		II.
1	Explain in detail the framework of MapReduce?	Remember	CO4	ACS012.15
2	Explain the working principle of MapReduce?	Remember	CO4	ACS012.15
3	Estimate the entire process of data analysis conducted in	Understand	CO4	ACS012.14
	the MapReduce programming model?			
4	Explain the description of MapReduce process for a	Remember	CO4	ACS012.14
	specific case?			
5	Describe the uses of MapReduce?	Remember	CO4	ACS012.14
6	Define what conditions must be met to implement	Understand	CO4	ACS012.16
	MapReduce application?			
7	Can MapReduce be used to solve any kind of	Understand	CO4	ACS012.16
	computational problems? if not, explain the cases where			
	MapReduce is not applicable?			
8	Implement the Input Format for Compute-Intensive	Remember	CO4	ACS012.14
	applications?			
9	Write a short note on Input Split?	Understand	CO4	ACS012.16
10	Explain the types of MapReduce applications?	Understand	CO4	ACS012.14
11	Write a short on the FileInputFormat class?	Understand	CO4	ACS012.14
	Part – C (Problem Solving and Crit	tical Thinking)		
1	List the main features of MapReduce?	Remember	CO4	ACS012.14
2	Describe the working of the MapReduce algorithm?	Understand	CO4	ACS012.15
3	Discuss some techniques to optimize MapReduce jobs?	Remember	CO4	ACS012.14
4	Discuss the points you need to consider while designing a	Understand	CO4	ACS012.14
	file system in MapReduce?			
5	Write a short note on Input Format?	Understand	CO4	ACS012.16
	UNIT-V			•
	INTRODUCTION TO PIG A	ND HIVE		
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	Part - A (Short Answer Que			
1.	Breifly explain the architecture of Pig?	Understand	CO5	ACS012.14
2.				
	List out the benefits of Pig?	Remember	CO5	ACS012.16
3.	List out the benefits of Pig? Define what are the properties of Pig?	Understand	CO5	ACS012.16 ACS012.16
4.		Understand Remember	CO5 CO5	ACS012.16
	Define what are the properties of Pig?	Understand	CO5 CO5 CO5	ACS012.16 ACS012.16
4.	Define what are the properties of Pig? Explain about schema?	Understand Remember	CO5 CO5	ACS012.16 ACS012.16 ACS012.15
4. 5.	Define what are the properties of Pig? Explain about schema? Classify Pig Latin commands in Pig?	Understand Remember Understand	CO5 CO5 CO5	ACS012.16 ACS012.16 ACS012.15 ACS012.16
4. 5. 6.	Define what are the properties of Pig? Explain about schema? Classify Pig Latin commands in Pig? Explain the Pig Latin application flow?	Understand Remember Understand Understand	CO5 CO5 CO5 CO5	ACS012.16 ACS012.16 ACS012.15 ACS012.16 ACS012.15
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4. 5. 6. 7. 8.	Define what are the properties of Pig? Explain about schema? Classify Pig Latin commands in Pig? Explain the Pig Latin application flow? Define UDF? Discuss the modes of Pig scripts? Define Hive?	Understand Remember Understand Understand Understand Understand	CO5 CO5 CO5 CO5 CO5 CO5 CO5	ACS012.16 ACS012.15 ACS012.15 ACS012.16 ACS012.15 ACS012.16 ACS012.17
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10.	Explain the Built-in Functions in Hive?	Understand	CO5	ACS012.19			
	Part – C (Problem Solving and Critical Thinking)						
1	Write a short note on the following operators: a. GROUP	Remember	C05	ACS012.17			
	b. ORDER BY						
2	Define are joins? How many types of joins are there in	Understand	C05	ACS012.19			
	Pig Latin with examples?						
3	Write the Hive command to create a table with four	Understand	C05	ACS012.18			
	columns: First name, last name, age, and income?						
4	A start-up company wants to use Hive for storing its data.	Understand	C05	ACS012.20			
	List the collection types provided by Hive for this						
	purpose?						
	Write a shell command in Hive to list all the files in the						
	current directory?						
5	Write a shell command in Hive to list all the files in the	Understand	C05	ACS012.20			
	current directory?						

Prepared by:

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