(An Autonomous Institution affiliated to VTU, Belagavi) Eighth Semester B.E. (CSE) (Credit System) Degree Examinations April - May 2017

13CS817 - BIG DATA ANALYTICS (BAO)

ation: 3 Hours

Max. Marks: 100

Note: Answer Five full questions choosing One full question from each Unit.

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Unit – I	Marks	BT
What is Big Data analytics? Explain benefits and barriers of big data analytics.	8	L*4
Write a note on Big Data Framework.	6	L2
Discuss five key Big Data use cases.	6	L1
What is Big Data? Explain the characteristics of Big Data.	6	L1
Explain different Big Data success stories and applications?	8	L
Why is Big Data important? List the different Big Data sources.	6	L
Unit – II	0	L4
How MapReduce works? Explain with word count example.	8	L2
Explain Flat Scalability and Data distribution feature of Hadoop?	0	L
Write a note on HDFS file system commands and commands for Checking	6	L1
health of file system.		L2
What is HBase? Give the difference between HBase and Relational database.	6	L2
Explain Hadoop Distributed File System.	4	L
Finds how Elume Works?	4	L
Explain how Flume works:	7	-
Unit – III	4	L
With an example explain various JSON formats.	4	L
Write a short note on JAQL schema.	8	L
Write a short note on JAQL schema. How Input/Output (I/O) is performed in JAQL? Explain I/O adapters. How Input/Output (I/O) is performed in JAQL? Explain I/O adapters.		
How Input/Output (I/O) is performed in JAQL? Explain I/O adaptors. Why materialized assignment? Compare normal assignment and materialized	4	L
assignment in JAQL.	8	L
assignment in JAQL. a) Explain arrays, records and Map Reduce process in JAQL	8	L
b) Discuss JAQL core operators.	4	L
() What is IAOI ? Where does JAQL III		
Unit – IV a) What is Pig? Explain the execution steps of Pig and also list different data types		
a) What is Pig2 Explain the execution steps of Fig and dies in the	6	L
it supports	6	L
it supports. b) What is Zookeeper? Explain Zookeeper data model c) What is Zookeeper? Explain Hive.		L
what is Zookeeper? Explain Hive. C) With a Hive architecture explain Hive.	8	L
a between our de for loaning udid lillo into	6	L
Explain primitive data types and inputoutput operate data types and inputoutput operate.		
Unit - V Unit - V Streams during Analysis and	0	1
a) How Streams work? Discuss IBM Infosphere Streams during Analysis and	8	L
	4	L
b) Explain filter and utility operators of Streams. c) Explain communication among SPL applications. Explain communication among SPL applications.	8	L
c) Explain communication among STE appropriate Streams objects.	6	L
Explain filter and utility operations. Explain filter and utility operations. Explain communication among SPL applications. Explain communication among SPL applications. Explain communication among SPL applications. Explain filter and utility operations. Explain filter and utility operations. Explain runtime and development view of InfoSphere Streams objects. Write a short note on Streams schema.	6	L
Wille a short floto of		
c) Discuss SPL data types.		
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Bloom's Taxonomy, L* Level

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NMAM INSTITUTE OF TECHNOLOGY, NITTE

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester B.E. (CSE) (Credit System) Degree Examinations

Make up / Supplementary Examinations – July 2017

13CS817 - BIG DATA ANALYTICS (BAC

ALIQUES (BAO)		
3 HOUIS	x. Marks	: 100
Note: Answer Five full questions choosing One full question from each Ur	nit.	
Unit – I	Marks	DT*
What is Big Data Analytics? Explain different benefits and Barriers of Big Data Analytics?		
cynlain each component of Big Data Process with a next diagram?	8	L*1
Explain any 5 ose cases of big bata Analytics?	6	L3 L2
Explain the different characteristics of Big Data with respect to social medias like Facebook, Twitter, etc?	0	1.4
How Big Data approach is different from Traditional approach is solving any	6	L4
problem?	6	L3 L2
Illustratedifferent Big Data types with an example for each?	8	LZ
Unit – II		
Discuss about Hadoop? Give examples for Hadoop in action?	6	L3
Bring out the different components that are involved Hadoop? What is Flat	8	L2
scalability feature in Hadoop?	0	
Write a note on HDFS Configuration settings? How HDFS Interaction is	6	L1
facilitated in Hadoop?	6	L4
Explain MapReduce by taking WordCount as an example? Discuss different components and characteristics of HBase Tables? What are		
the rolesplayed byZooKeeper in HBase? Hadoon Distributed File System? Also	8	L3
the rolesplayed byZooKeeper in HBase? Explain the different aspects of HDFS- Hadoop Distributed File System? Also emphasize on NameNode and DataNode?	6	L4
11 14 111	6	L2
IA OL fit in Rig Data ecosystem:	10	
Describe JASON format? Where does JAQL it in big Discuss any five core operators of JAQL with an example for each? In JAQL, what is the operator (->) called as? Illustrate with simple example?	4	L3
MUSAUL, what is the operator (")	8	L2 L3
through the USE Of JACE	6	Lo
Explain MapReduce basics through the use of of the Explain MapReduce basics through the use of of the Explain JAQL arrays and records with an example for each? Write a note on JAQL I/O Adapters? List the different I/O Adapter operations Supported by IAQL 3	6	L2
Unit - IV Discuss the important built-in	6	L2
Unit – IV Explain the importance of STORE operator in Pig? Discuss the important built-in functions supported by STORE operator? STORE operator?	6	L1
	4	L2
What is Pig in Big Data? List different data types supported by Pig? What is Pig in Big Data? List different data types supported by Pig? Explain Hive Data Organization? Discuss the importance of commands CREATE, SHOW, DESCRIBE, USE, Discuss the importance of commands on command? DROP ALTERS Westrate a Hive query for any one command?	4	L3
Discuss the importance of commands on command?	6	L2
ALIER! Illustrate	8	L4
List the different primitive data types supported by Hive? What is Use a Formula the different components of Hive with a block diagram? What is Use a Formula the different components of Hive-Joins, Views, and		1.4
List the different primitive data types supported by Hive? What is Hive? Explain the different components of Hive with a block diagram? What is Hive? Explain the different components of Hive- Joins, Views, and Discuss the following operations in the context of P.T.O.	6	L4
biscuss the following operations in		
Explain? P.T.O.		

April - May 2018 14CS23

14CS825 - BIG DATA ANALYTICS

uration: 3 Hours

ati	Note: Answer Five full questions choosing One full question from each	Max. Marks	: 100
	Unit - I	Unit.	
	What is big data analytics? Explain 5 'V's' of big data. Why is finding similar items important in Big Data?	Marks 10	BT*
		e 10	L1
-	a) Relate the types of digital data in details and explain? Define data environment versus big data environment in detail.	10 10	L1 L1
١	Unit – II		
Ì	a) Explain what is Nosql? Why Are NoSQL Databases Interesting? Why we should use Nosql? When to use Nosql?	d 10	L2
١	b) Classify the difference between Sql and Nosql? Explain the types of Nosql?	10	L2
	a) Explain Hadoop Ecosystem? Discuss various components of Hadoop Ecosystem.	p 10	L2
	b) Explain core architecture of Hadoop with suitable block diagram. Discuss the roll of each component in details?	10	L2
	Unit – III		
	a) Explain the working of various phases of Map reduce with appropriate example and diagram.	10 10	L3 L3
	b) Discuss in brief about API for Map reduce framework.		
	a) How MapReduce Works? / Explain the anatomy of classic map reduce job run/How Hadoop runs map reduce Job? b) Classify the Yarn Architecture? Briefly.	10 10	L4 L5
	Unit – IV	10	
	Discuss the difference between Pig and Map reduces in details.	10	L5
	classify Grunt is a pig interactive shell? a) Explain in brief about Data manipulation in HIVE.	10 10	L4 L4
	Discuss in brief about PIG Commands.		
	unit – V Learning.	10	L5 L5
	the types of descriptive, it	10 10	L5 L4
	Predict the importance of Big data analytics. Explain the overview of intelligence in Big data analytics?		
	Bloom's Taxonomy, L* Level		