17/12/16.

KIIT UNIVERSITY, BHUBANESWAR MID-SEMESTER EXAMINATION- 2016

Semester: 7th

Subject: DATA ANALYTICS (DA)

Paper Code: IT-3002

Answer any FIVE questions including Question No.1 which is compulsory.

The figures in the margin indicate full marks.

Time: 2Hrs Full Marks: 25

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Q1. Answer the following questions briefly	[1X5=5]
a. Name the five key stakeholders of an analytic project and define their role?b. Define Virtualization? How it handles the big data?	
c. Explain the block concept in HADOOP with suitable example?	
d. Explain the challenges in distributed computing and how it is handled by HADOOP?	
e. Distinguish between Job tracker and Task tracker?	
Q2.a. Explain the platform management layer of big data architecture? Discuss the tea available in this layer?	chnologies [2.5]
b. Explain the role of analytic engine in big data architecture? Which types of engines an analyzing data?	
[2.5]	
Q3. a. Explain the architecture of HADOOP with diagram?	[2.5]
b. Write the steps of MAP REDUCE used to handle large data problem	[2.5]
Q4. a. Explain the data model of HBase? Give suitable example of it	[2.5]
b. Create a two dimensional array (4x4) and perform following operations using R function	[2.5]
i. display the matrix	
ii. display only 2nd column	
iii. change all elements of 2nd column	
iv. display only 3rd row	
v. display the new matrix	
Q5. a. Suppose you have a user data in one file, website data in another file and you need to top 5 most visited site by users aged 18-25. Draw the data flow diagram and the Pig qu same?	-
	[2.5]
b. Explain the grouping and joining operators in Pig?	[2.5]
Q6. Write short notes on any two of the following: a. Zookeeper	[2.5 x 2]
c. NOSQL	

b. HDFS (HA)