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e No: 127JU  JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, November/December - 2018  BIG DATA ANALYTICS  (Common to CSE, IT)  Max. Marks: 75  This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.
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Discuss some preferred tools used for effective data management strategy and decision making?  What internal procedures impact on when and how data are delivered?  [3]  Draw and discuss the architecture of Hive in brief.  [2]  What is Spark Unified Stack? Explain using an example.  [3]  Why there a sudden requirement for Big Data Analytics today? Explain.  [2]  What are the different ways of constructing version stamps? Explain their advantages and disadvantages.  [3]  State the relationship between the regression coefficient and correlation coefficient.  [2]  State the formulae for the constant term and coefficient in the regression equation.  [3]  Draw two example parallel coordinate plots: The first showing positive correlation and the second showing negative correlation.  [2]  How to prepare the data for visualization using Tableau tool? Explain.  [3]
PART-B (50 Marks)
How does Rackspace implement controls for the physical security and environmental resilience of the underlying hardware? Explain with a suitable example. [10]  Describe issues regarding preprocessing of data for classification and prediction. Also explain the process of communication between data providers and data consumers.[10]
Explain Map-reduce framework in detail. Draw the architectural diagram for Physical Organization of Compute Nodes. [10]
What is Spark? State the advantages of using Apache Spark over Hadoop MapReduce for big data processing with example.

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	AG.	How is Rep types of Ana	ort comparisons lytics.	and analysis do	ne by\a developi	ing team? Expla	in different [10]	A
	8.	<ul> <li>8. How is a random sample selected? Explain complex random sampling designs. [10]  OR</li> <li>9. With the help of a block diagram explain the probably approximately correct (PAC)  Learning model. [10]</li> </ul>						
	9.							
	$\triangle$ $\bigcirc$ $0$ .	Define the constream surface	oncept of a strea	m surface. Desci a triangle mesh. <b>OR</b>	ribe a simple men	thod for the gene	eration of a	A
(	What are the three most important mappings for visualization of a 2D scalar field d(x,y)?  Give for each mapping a mapping function which defines the relation between the data values and the visual parameters.  [10]							
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