

Invigilator's Signature and Date



Set-1

**KIIT DEEMED TO BE UNIVERSITY**  
**Spring End Semester Examination-2022**

Roll No.	
Registration No.	
Name	
Date of Exam	

**BIG DATA (CS3032)**  
6<sup>th</sup> Semester B.Tech

**SECTION-A**

(Answer All Questions)

Time: 30 Minutes

Full Marks =  $2 \times 7 = 14$  Marks

Question No	Question	Write the correct option here.
Q.No:1	Big data management and data mining are useful for a) Business intelligence b) Data Analysis c) Both of the above d) None of the above	
Q.No:2	The form of data that is structured but is not defined is _____. a) Structured b) Unstructured c) Processed d) Semi-structured	
Q.No:3	The archive file created in Hadoop has the extension of----- a) .hrh b) .har c) .hrc d) .hrrar	
Q.No:4	Select the ideal tool for the business that needs fast and real-time data for instant decisions? a) RapidMiner b) MongoDB c) R Programming Tool d) Neo4j	
Q.No:5	During start up, the _____ loads the file system state from the fsimage and the edits log file. a) Data Node b) Name Node c) Both of the above d) None of the above	

Q.No:6	Hadoop framework is implemented in Java, MapReduce applications need not be written in _____ a) Java b) C++ c) Python d) None of the above	
Q.No:7	Just collecting and storing information isn't enough to produce real business value. Big data analytics technologies are necessary to a) Formulate eye-catching charts and graphs b) Extract valuable insights from the data c) Integrate data from internal and external sources d) Determine business goals and objectives	

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**SECTION-B**

**(Answer Any Three Questions.)**

**Time: 1 Hour and 30 Minutes**

**Full Marks =  $12 \times 3 = 36$  Marks**

- Q.No:8    I.    Explain any six major challenges for big data systems by citing an example for each limitation? [6]  
              II.    Compare any six key differences between transactional systems and analytical systems. [6]
- Q.No:9    Discuss any twelve number of key features of big data architecture with a neat representation of diagram?
- Q.No:10    I.    How google file system differs from the Hadoop file system and enlighten the Hadoop file system architecture with a neat suitable block diagram. [8]  
              II.    Consider an example. Assume that student name is key, k. Each student grade sheet entry has a number of values or set of (secondary) key-value pairs. For example, semester grade point average (SGPAs) values and cumulative grade point average (CGPA) value. How will the hash function be used (Assume the required data if necessary)? [4]
- Q.No:11    Develop the implementation of map reduce concept with a small example by considering each and every step clearly with eloquent explanations?

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