



c) Reducer

(vii) Report the number of iterations in apriori



BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – MCA-2020/MCA-2021
Course Name – Big Data Analysis
Course Code - MCA305A
(Semester III)

| Full [T | Marks: 60 he figure in the margin indicates full marks. Cand own words as far | Time: 2:30 Hours lidates are required to give their answers in their as practicable.] |
|------------|---|--|
| 1. | Group (Multiple Choice T Choose the correct alternative from the following | ype Question) 1 x 15=15 |
| (i) | Predict the reason to use an SQL database? | |
| | a) It's ACID-compliant. | b) It can easily store unstructured data. It's ACID-compliant. |
| (ii) | c) It can enable development in the cloud Validate the correct option for the given blank:_ developed by Cloudera. | d) None of above is a online NoSQL |
| (iii) | a) Oozic) ImphalaSelect the correct option which is general-purposystem for distributed data analytics. | b) Hbase d) Hcatalog ose computing model and runtime |
| (iv) | a) Oozie c) Drill Match the suitable option for the blank: responsible for processing one or more chunks or results. | |
| (v) | a) Maptask c) Task execution Name the type of analytics that answers the qu | b) Mapper d) All of the mentioned estion "What will happen?". |
| (vi) | a) Descriptive analytics c) Prescriptive analytics Select the suitable option for the blank: consolidating the results produced by each of the | |
| | a) Reduce | h) Man |

d) All of the mentioned



| a) Increases with the size of the data | b) Decreases with the increase in size of | ii the | | |
|---|---|----------|--|--|
| c) Increases with the size of the maximum | data d) Decreases with increase in size of th | e | | |
| frequent set | d) Decreases with increase in size of the maximum frequent set works in a fashion | C19 | | |
| (viii) Express the suitable option for the blank: HDFS | works in a fashion | 5 7/17 H | | |
| a) master-worker | b) master-slave | 7.7 | | |
| c) worker/slave | d) all of the mentioned | | | |
| (ix) Explain a dendrogram . | | | | |
| a) A hierarchical structure | b) A diagram structure | | | |
| c) A graph structure | d) None of these | | | |
| (x) Choose the correct option: clustering is a | | | | |
| a) Supervised learning | b) Unsupervised learning | | | |
| c) Reinforcement learning | d) None of these | | | |
| (xi) Determine the data type that we cannot perform for cluster analysis? | | | | |
| a) Multimedia data c) Text data | b) Time series data | | | |
| (xii) Focus the application of Big data analysis? | d) None of these | | | |
| • | 13 g and annual min | | | |
| a) Stock market predictionc) Real time analysis | b) Sentiment analysis | | | |
| (xiii) Analyze the following statements that is true a | d) All of these | | | |
| a) Stream data is always unstructured data. | b) Stream data often has a high velocit | V | | |
| c) Stream elements cannot be stored on disk. | d) Stream data often has a high velocity d) Stream data is always structured da | | | |
| (xiv) Find errors from following options: Which is the | | .u. | | |
| a) Cassandra | b) MongoDB | | | |
| c) SQL Server | d) None of the above | | | |
| (xv) Select the correct statement. | 2, | | | |
| a) HBase is a distributed column-oriented database | b) Hbase is not open source | | | |
| c) Hbase is horizontally scalable. | d) Both A and C | | | |
| Grou | ір-В | | | |
| (Short Answer T | ype Questions) | 3 x 5=15 | | |
| | | | | |
| 2. Report the types of mechanism works in NoSQL a | nd write down their name. | (3) | | |
| 3. Write down some of the pros and cons of K-means clustering algorithm.4. Report how will you solve a classification problem using Decision Tree. | | (3) | | |
| 5. Explain metadata and which node stores metadat | i using Decision Tree. | (3) | | |
| 6. Identify the task of map task and reduce task | .a III 11DF3. | (3) | | |
| 0 | R | (3) | | |
| Illustrate the three types of data analytics . | | (3) | | |
| | | (3) | | |
| Grou | | | | |
| (Long Answer T | ype Questions) | 5 x 6=30 | | |
| | | | | |
| 7. Discuss about MapReduce with a example. | | (5) | | |
| 8. Illustrate Naive Bayes Classification in detail. | | (5) | | |
| 9. Compare the functions of name node, data node | e and secondary node. | (5) | | |
| 10. Illustrate collaborative filtering in detail. | of N-COL | (5) | | |
| 11. Write down the advantages and disadvantages of 12. Describe Big data and the importance of big data | | (5) | | |
| | a. R | (5) | | |
| • | ••• | | | |

Define the characteristics of Big Data.

(5)

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