

BENGALURU

School of Computer Science and Engineering OUESTION BANK

CSE3190- Fundamentals of Data Analytics

| SL. | Questions. | marks | | | | |
|-----|---|---------|--|--|--|--|
| NO | | | | | | |
| 1. | Define Data Analysis. Mention the different types of Data Analysis. | 2 Marks | | | | |
| 2. | List out the difference between data and information. | 2 Marks | | | | |
| 3. | Identify 10 V's of data. | 2 Marks | | | | |
| 4. | List out the difference between Qualitative data and Quantitative data. | 2 Marks | | | | |
| 5. | Name the command used for Accessing Subgroups in Data Frames | | | | | |
| 6. | Define Data Analysis. | 2 Marks | | | | |
| 7. | List the command used to add a column and row a to a data frame. | | | | | |
| 8. | Define the vector of integers from 2 to 10 in R. | 2 Marks | | | | |
| 9. | List two features of R studio | 2 Marks | | | | |
| 10. | Demonstrate the program in R to display the "Hello World". | 2 Marks | | | | |
| 11. | What is Data analysis? And provide a real-world example for it. | 2 Marks | | | | |
| 12. | List the different types of digital data with examples. | 2 Marks | | | | |
| 13. | Classify the following variables based on their scale of measurement: Movie ratings, Political parties, Profit, Time. | 2 Marks | | | | |
| 14. | Describe the steps involved in creating a variable in R, providing a specific example to illustrate each step. | 2 Marks | | | | |
| 15. | Which are some common causes of Missing Data. | 2 Marks | | | | |
| 16. | Explain the different sources of data? | 5 Marks | | | | |
| 17. | Discuss the concept of relational operators in R. Provide example. | 5 Marks | | | | |
| 18. | Review the concept of logical operators in R. Provide example. | 5 Marks | | | | |
| 19. | Differentiate between structured & unstructured data | 5 Marks | | | | |

| Explain the measures of central tendency (mean, median, and mode) and compute them for the following dataset: 3, 4, 5, 6, 7, 7, 7, 8, 8, 9 21. Summarize, the basic data types available in R and provide examples for each. 22. Describe nominal, ordinal and interval scales of measurement in data analysis. 31. Discuss the rules to declare variables in R? Provide example for valid and invalid variable. 22. Summarize the concept of data frames in R and provide an example. 23. Summarize the concept of data frames in R and provide an example. 24. Summarize the concept of list in R and provide an example. 25. Marks 26. Describe the concept of list in R and provide an example. 27. Demonstrate, how to access and update elements in lists. 38. Apply the cbind() and rbind() functions to combine the following multiple vectors in R. Display the result. 39. vector 1 < - (1, 2, 3) 30. vector 2 < - (4, 5, 6) 29. Explain the following functions. 30. i) is.na() ii) sum(is.na()) iii) anyNA() iv) complete.cases() 30. v) colSums(is.na()) and rowSums(is.na()) 31. matrix(2 < matrix(7:12, nrow = 3, ncol = 2) 32. matrix(2 < matrix(7:12, nrow = 3, ncol = 2) 33. matrix 2 < matrix(7:12, nrow = 3, ncol = 2) 34. Compute and normalize following group of data: 35. Marks 36. Demonstrate the creation of data frame consists of Roll Numbers of 5 students along with their names and Mid Term and End Term Marks 36. Summarize the key distinctions between structured and unstructured data. 37. Marks 38. Summarize the key distinctions between structured and unstructured data. 39. Describe the human-generated unstructured data. 30. Describe the human-generated unstructured data. 31. Summarize the loading of the cars.csv into a dataframe called Cars_Info without the header. 39. Explain the necessary steps for Data preprocessing. 7 Marks | | | | | | | | | |
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| 38. Explain the necessary steps for Data preprocessing. 7 Marks | 37. | | 3 Marks | | | | | | |
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| | | 3 Marks | | | | | | | | | | |
|-----|---|---------|--|--|--|--|--|--|--|--|--|--|
| 39. | | | | | | | | | | | | |
| 40. | Explain the types of Digital Data. | | | | | | | | | | | |
| 41 | Interpret the output of the following commands on the Cars_Info i) nrow(Cars_Info) ii) sum(is.na(Cars_Info)) iii) anyNA(Cars_Info) | 6 Marks | | | | | | | | | | |
| 42 | Discuss about the main sources of Data Apply your knowledge to analyze the output of the following commands on the | | | | | | | | | | | |
| 43 | Apply your knowledge to analyze the output of the following commands on the Cars_Info dataset. i) rowSums(is.na(Cars_Info)) ii) class(Cars_Info) iii) col(is.na(data) | | | | | | | | | | | |
| 42 | E-commerce Business Analysis A fictional e-commerce company, ShopSmart, is facing challenges with declining sales over the last few months. To address this issue, ShopSmart's management wants to use data analytics to better understand the situation and decide on actionable steps i) Discuss how the four types of data analytics (descriptive, diagnostic, predictive, and prescriptive) were applied to help ShopSmart understand and address its declining sales. (6 marks) ii) Explain the key insights derived from diagnostic and prescriptive analytics, and how these insights influenced the company's strategy to improve sales. (4 marks) | | | | | | | | | | | |
| 43 | Hospital Readmission Reduction Program A large hospital, CityCare Medical Center, is struggling with high rates of patient readmissions within 30 days of discharge, particularly for patients with heart failure. The hospital administration aims to reduce readmission rates by using data analytics to understand the situation and improve patient outcomes. i) Describe the role of each of the four types of data analytics (descriptive, diagnostic, predictive, and prescriptive) in helping CityCare Medical Center reduce patient readmissions.(6marks) ii) Summarize specific insights were gained from the use of diagnostic and predictive analytics, and how did these insights guide the hospital's decision-making? (4 marks) | | | | | | | | | | | |

| 44 | Differentiate between Data and Information | 3Marks | | | | | | | |
|----|--|--------|--|--|--|--|--|--|--|
| 45 | List and explain Many V's of Data | | | | | | | | |
| 46 | Differentiate between qualitative and quantitative variables, providing real-world examples. | 5Marks | | | | | | | |
| 47 | Create a data frame named students with columns for "Name", "Age", and "Marks". Add some sample data and print the data frame.(Minimum 5 rows) | 5Marks | | | | | | | |
| 48 | List out some of the human generated structured data | | | | | | | | |
| 49 | Using R, Create a vector called Exam having minimum of 7 numbers, and write the code of how you would calculate mean, median and mode for the given vector. | | | | | | | | |
| 50 | Outline the key steps involved in data preparation | 5Marks | | | | | | | |
| 51 | List the different commands used in finding missing values in the given dataset. | 5Marks | | | | | | | |
| 52 | List and explain some of the main sources of data. | 4Marks | | | | | | | |
| 53 | Using R, create two 3x3 matrices filled with numbers between 1 and 10. Combine these two matrices using the cbind() and rbind() functions. Explain the difference between the resulting matrices. | | | | | | | | |
| 54 | Demonstrate how to import a excel file inside R studio inside a dataframe called data without any headers and separated by a comma. | | | | | | | | |
| 55 | Create two dataframes called data1 and data2 having students details and combine both dataframes into a single matrix. | | | | | | | | |
| 56 | List the different methods to access elements from a given List. | 3Marks | | | | | | | |
| 57 | Write an R script to create a function named calculator that takes two numbers and an operator as input. The function should perform the specified operation and return the result. The valid operators should be "+", "-", "*", and "sqrt". | 8Marks | | | | | | | |
| | Student Performance Analysis: The school administration is concerned about the declining overall academic performance of students. They want to analyze student data to identify areas for improvement and implement targeted interventions. | | | | | | | | |
| 58 | i) Explain how the four types of data analysis will be used to analyze school performance. and, ii) Develop a comprehensive plan to improve student performance, | 6Marks | | | | | | | |
| | utilizing predictive and prescriptive analytics. What strategies can be implemented based on data-driven insights? | 4Marks | | | | | | | |

cars.csv stored as Cars_Info

| Model | mpg | cyl | disp | hp | drat | wt | qsec | vs | am | gear | carb |
|----------------|------|-----|-------|-----|------|-------|-------|----|----|------|------|
| Mazda RX4 | 21 | 6 | 160 | 110 | 3.9 | 2.62 | 16.46 | 0 | 1 | 4 | 4 |
| Mazda RX4 Wag | 21 | 6 | 160 | 110 | 3.9 | 2.875 | 17.02 | 0 | 1 | 4 | 4 |
| Datsun 710 | 22.8 | 4 | 108 | 93 | 3.85 | 2.32 | 18.61 | 1 | 1 | 4 | 1 |
| Hornet 4 Drive | 21.4 | 6 | 258 | 110 | 3.08 | 3.215 | 19.44 | 1 | 0 | 3 | 1 |
| Hornet | | | | | | | | | | | |
| Sportabout | 18.7 | 8 | 360 | 175 | 3.15 | 3.44 | 17.02 | 0 | 0 | 3 | 2 |
| Valiant | 18.1 | 6 | 225 | 105 | 2.76 | 3.46 | Na | 1 | 0 | 3 | 1 |
| Duster 360 | 14.3 | 8 | 360 | 245 | 3.21 | 3.57 | 15.84 | 0 | 0 | 3 | 4 |
| Merc 240D | 24.4 | 4 | 146.7 | 62 | 3.69 | 3.19 | 20 | 1 | 0 | 4 | 2 |
| Merc 230 | 22.8 | 4 | 140.8 | 95 | 3.92 | 3.15 | 22.9 | 1 | 0 | 4 | 2 |