

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, OCTOBER 2025
2024 ADMISSIONS REGULAR
SEMESTER III - VALUE ADDITION COURSES (VAC) (COMPUTER APPLICATIONS)
CA3VAC01B24 - Concepts of Data Analytics

Time : 1.5 Hours

Maximum Marks : 50

Part A

Answer any 3 questions from the bunch of CO1. Each question carries 2 mark. (2x3=6)

1. Define nominal data? Give an example. [CO1,Remember]
2. Give two examples of time series data. [CO1,Remember]
3. Differentiate between data and information. [CO1,Understand]
4. Explain the tasks involved in data cleaning. [CO1,Understand]

Part A

Answer any 3 questions from the bunch of CO2. Each question carries 2 mark. (2x3=6)

5. Define normalization in data preprocessing. [CO2,Remember]
6. Explain why standardization is used in data transformation. [CO2,Understand]
7. List any 2 data formats for data collection purpose. [CO2,Remember]
8. Explain what is Missing Data and State one way of handling missing data. [CO2,Understand]

Part A

Answer any 4 questions. Each question carries 2 mark. (2x4=8)

9. State one advantage of histograms in data analysis. [CO3,Understand]
10. Write the formula for range. [CO3,Remember]
11. Define Interquartile Range (IQR). [CO3,Remember]
12. State any two objectives of EDA. [CO3,Understand]
13. Name any two Python libraries used for data visualization. [CO3,Remember]

Part B

Answer any 2 questions from the bunch of CO1. Each question carries 5 mark. (5x2=10)

14. Explain data analytics and its importance in detail. [CO1,Understand]
15. Explain the differences between structured, unstructured, and semi-structured data with examples. [CO1,Analyse]
16. Discuss the role of data analytics in marketing and advertising with examples. [CO1,Evaluate]

Part B

Answer any 2 questions from the bunch of CO2. Each question carries 5 mark. (5x2=10)

17. Differentiate between standardization and normalization. [CO2,Analyse]
18. Examine the impact of outliers on data analysis and suggest treatment methods. [CO2,Analyse]
19. Compare surveys and interviews as data collection methods. [CO2,Analyse]

Part B

Answer any 2 questions from the bunch of CO3. Each question carries 5 mark. (5x2=10)

20. Write short notes on skewness and its types. [CO3,Understand]
21. Define variance and standard deviation and state their importance. [CO3,Analyse]

22. Mention and briefly explain any five benefits of performing EDA.

[CO3,Understand]