

MBA Exec Sem.-3 (Rep) Examination**MBA_E_BI_352/BID_356****FDMR****Time : 2-30 Hours]****December-2024****[Max. Marks : 70**

- Q.1 Explain the significance of statistical computing in modern research and data analysis. (14)
Discuss the advantages of using computational tools like R for statistical tasks.
- Q.2 Describe the importance of descriptive statistics in data analysis. Discuss how measures (14)
such as mean, median, standard deviation, and data visualization help summarize and
understand data
- Or
- Q.2 What are the steps involved in hypothesis testing? Explain the importance of null and (14)
alternative hypotheses, the concept of p-values, and the role of significance levels in
decision-making.
- Q.3 Discuss the purpose of Analysis of Variance (ANOVA) in statistical analysis. Highlight (14)
its applications and the importance of comparing means across multiple groups
- Or
- Q.3 Explain the difference between correlation and regression analysis. Discuss their (14)
applications in understanding relationships between variables and making predictions.
- Q.4 What are t-tests, and when are they used? Discuss the difference between one-sample, (14)
independent-samples, and paired-samples t-tests with examples of their application.
- Or
- Q.4 Explain the role of data visualization in statistical analysis. Discuss how graphical (14)
representations like histograms, box plots, and scatter plots aid in understanding data
trends and patterns.
- Q.5 Discuss the role of statistical software in simplifying complex data analysis tasks. (14)
Highlight the key benefits of using software tool – R in academic and professional
settings.
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