

## School of Liberal Education

**Bachelor of Arts Honours in Economics  
Semester End Examination - Jun 2024**

**Duration : 180 Minutes  
Max Marks : 100**

### Sem II - K1UB204C - Statistical Software Package

General Instructions

*Answer to the specific question asked*

*Draw neat, labelled diagrams wherever necessary*

*Approved data hand books are allowed subject to verification by the Invigilator*

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|-----|---|--------|
| 1)  | Define the median in the context of SPSS.   | K1(2)  |
| 2)  | Elaborate on the steps involved in identifying fundamental distributions in SPSS. Discuss how researchers can use descriptive statistics and graphical representations to recognize different distribution patterns in their datasets.                                | K2(4)  |
| 3)  | What is the relationship between the research question, hypotheses, and statistical analysis plan in SPSS?  | K2(6)  |
| 4)  | Using SPSS, explain how a box plot can be utilized to summarize and present data effectively. Provide a step-by-step guide on how to create a box plot and discuss the insights that can be derived from interpreting it.   | K3(9)  |
| 5)  | Apply the steps to generate a grouped bar chart in SPSS, showcasing how it can be useful in presenting comparisons between different groups. Discuss scenarios where a grouped bar chart is preferable over other visualizations.                                     | K3(9)  |
| 6)  | What is the advantage of smpling over coomplete enumeration? How does the choice of sampling method impact data analysis? Provide a simple example  | K5(10) |
| 7)  | Describe at least three different sampling techniques available in SPSS, providing examples of situations where each technique might be appropriate.  | K4(12) |
| 8)  | Evaluate the nationally representative data set available in India. Discuss the process of integrating publicly available demographic data into an existing dataset in SPSS and visualize the combined data for analysis.   | K5(15) |
| 9)  | Explain the significance of identifying fundamental distributions in statistical analysis. Provide an overview of common fundamental distributions and how recognizing them contributes to data interpretation.   | K5(15) |
| 10) | Explore the concept of non-probability sampling in SPSS, highlighting its advantages and limitations. Provide examples of non-probability sampling methods and discuss situations where researchers might opt for non-probability sampling over probability sampling. | K6(18) |