University of Colombo
Faculty of Arts
Bachelor of Arts Degree Examination - First Year
Semester End Examination- Semester II - 2023/2024
FND 1202: Introduction to Data Analysis

Answer three (03) questions only.
Calculators can be used. **Time: Two (02) hours**
This paper contains five (05) questions and Two (02) pages.

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1. a) "There is a distinct difference between Data and Information". Explain this statement by citing examples.

(07 Marks)

b) Examine the importance of the use of data in a demographic analysis by citing examples.

(07 Marks)

c) Citing examples, explain instances in which data are misused.

(06 Marks)

2. a) Briefly explain the importance of identifying types of data in data analysis.

(07 Marks)

b) Citing examples, explain the difference between 'primary data' versus 'secondary data' and 'quantitative data' versus 'qualitative data'.

(08 Marks)

c) State two instances where 'continuous data' and 'discrete data' can be applied with relevance to the study of demographics by citing examples.

(05 Marks)

3. a) State the 'methods of primary data collection' and examine how data obtained from one of these methods is important for demographic studies.

(08 Marks)

b) Examine how the secondary data sources of 'census data' differ from 'survey data'.

(07 Marks)

c) Explain the basic differences between 'stock data' and 'flow data' by giving examples.

(05 Marks)

4. a) Explain the difference between 'nominal-scale variables' and 'ordinal-scale variables' in a data analysis by citing examples.

(08 Marks)

b) State the statistical measures that use the variables mentioned in question 4. (a) for 'univariate analysis' and 'bivariate analysis', citing hypothetical examples.

(07 Marks)

c) Explain what you mean by a process of 'consistency checkup' in data processing.

(05 Marks)

5. a) According to the results obtained from a survey in a country, the blood pressure levels of 08 males by age are given in the following table. Examine the relationship between the age and blood pressure level of these 08 males using Karl Pearsons's product moment correlation coefficient (r) and state your ideas about the relationship.

(15 Marks)

Age (x)	56	42	72	36	63	47	55	62
Blood Pressure (y)	147	125	160	118	149	128	150	155

$$r = \frac{(\Sigma_{xy})}{\sqrt{((\Sigma x^2)(\Sigma y^2))}}$$

b) What are the basic features that should be in a statistical table when presenting data results?

(05 Marks)