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| **SESSION** | **Sep 2023** |
| **PROGRAM** | **BACHELOR of COMMERCE (B COM)** |
| **SEMESTER** | **III** |
| **course CODE & NAME** |  |
| **CREDITS** | **4** |
| **nUMBER OF ASSIGNMENTS & Marks** | **02**  **30 Marks each** |

**Set – 1**

**Questions**

**1. What is primary data and secondary data? Mention the methods of collecting primary data and secondary data.**

**Ans:**

**Primary Data:** Primary data refers to the original data collected first-hand by a researcher for a specific research purpose. This data is directly obtained from the source and is tailored to meet the specific requirements of a research study.

Common methods of collecting primary data include surveys, interviews, observations, experiments, and Its Half solved only

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**2. From the following data, compute the values of:-**

1. **upper and lower quartiles**
2. **median**

|  |  |  |  |
| --- | --- | --- | --- |
| **Marks** | **No. of. Students** | **Marks** | **No. of. Students** |
| **0-10** | **11** | **50- 60** | **33** |
| **10-20** | **18** | **60-70** | **22** |
| **20- 30** | **25** | **70-80** | **15** |
| **30-40** | **28** | **80-90** | **12** |
| **40-50** | **30** | **90-100** | **10** |

**Ans:To compute the upper and lower quartiles as well as the median, we need to arrange the data in ascending order and then use the following formulas:**

**Lower Quartile (Q1):** It is the median of the lower half of the data.

Q1 = \frac{n+1}{4} \text{-th value

**3. In a correlation study, the following values are obtained.**

|  |  |  |
| --- | --- | --- |
|  | **X** | **Y** |
| **Mean** | **65** | **67** |
| **S.D.** | **2.5** | **3.5** |

**Coefficient of correlation, r = 0.8. Find the two regression equations.**

**Ans:To find the two regression equations (regression lines) in a correlation study, we use the following formulas:**

**For the regression equation of Y on X:**

= Y=a+bX

**For the regression equation of X on Y:**

X=c+dY

**Set – 2**

**Questions**

**4. Explain time series with four types or elements of variations.**

**Ans:Time Series:** A time series is a series of data points collected or recorded in sequential order over time. It is a statistical technique used in various fields, such as economics, finance, environmental science, and more, to analyse patterns, trends, and behaviours over time.

Time series data is

**5. What do you mean by Hypothesis and Hypothesis testing? State differences between type I and II error.**

**Ans:Hypothesis:** A hypothesis is a statement or a proposition that suggests an explanation for a phenomenon or an educated guess about the relationship between variables. In scientific research and statistical analysis, hypotheses are formulated to be tested through empirical observations and experiments.

**Hypothesis Testing:**

**6. What should be the ideal structure of a research report? What are the elements of the structure defined by you?**

**Ans:**The structure of a research report may vary depending on the specific requirements of the academic or professional context, but a generally accepted structure includes several key elements.

**Here is a suggested ideal structure for a research report:**

**Title Page:** Includes the title of the research report, the author's name, institutional affiliation, and