

QP CODE: 24900248



Reg No:.....

Name:.....

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
FIRST SEMESTER MGU-UGP (HONOURS) REGULAR
EXAMINATION NOVEMBER 2024

First Semester

Multi-Disciplinary Course - MG1MDCSTA100 –

STATISTICAL DATA COLLECTION

(2024 ADMISSION ONWARDS)

Duration: 1 Hours

Maximum Marks: 35

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I),
Appreciation (Ap), and Skill (S)**

*Students should attempt atleast one question from each course outcome to enhance their overall
outcome attainability.*

[Learning Domain][CO No(s)]

Part A

Multiple Choice Questions

Answer all questions.

Each question carries 2 marks

- 1 Which method is commonly used to collect data in survey studies? [U] [1]
a) Standardized questionnaires b) Focus groups
c) Laboratory experiments d) Field observations
- 2 A researcher studies the effect of peer group interaction on learning styles. [U] [1]
The variable learning style in this study function as
a) independent variable b) extraneous variable
c) dependent variable d) intervening variable
- 3 The aggregate of all the units pertaining to a study is called [K] [2]
a) population b) unit

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|----|--|---|----------|
| | c) sample | d) sampling frame | |
| 4 | Stratified sampling comes under the catogory of | | [K] [2] |
| | a) Judgement sampling | b) Probabiliity sampling | |
| | c) Non-probability sampling | d) None of these | |
| 5 | Primary data as compared to secondary data | | [U] [3] |
| | a) Less reliable | b) Equally reliable | |
| | c) Not actual data | d) more reliable | |
| 6 | Which of these is not discrete data? | | [K] [3] |
| | a) Weight of a watermelon as measured each week | b) Number of students attending the class | |
| | c) Number of cars a company sells each day. | d) None of these | |
| 7 | What is a Likert scale typically used for? | | [A] [4] |
| | a) Ranking preferences | b) Rating levels of agreement or satisfaction | |
| | c) Choosing between options | d) Collecting open-ended feedback | |
| 8 | Which of the following is a key feature of uniformity trials? | | [An] [7] |
| | a) Random assignment of participants | b) Blinding of participants and researchers | |
| | c) Standardization of experimental conditions | d) Longitudinal data collection | |
| 9 | CRD is preferred when: | | [A] [6] |
| | a) Environmental conditions are homogeneous | b) There is a large variability | |
| | c) The experiment requires blocking | d) The data is non-random | |
| 10 | Which software is commonly used for designing and analyzing factorial experiments? | | [C] [6] |
| | a) R | b) SAS | |
| | c) Minitab | d) All of the above | |

(10 × 2 = 20)

Part B

Short Essay Type Questions

Answer any 3 questions.

Each question carries 5 marks

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|----|--|---------|
| 11 | Which are the important steps involved in a research process? | [E] [5] |
| 12 | Distinguish between simple random sampling and stratified random sampling | [U] [2] |
| 13 | Distinguish between schedule and questionnaire. | [K] [3] |
| 14 | Describe the difference between nominal, ordinal, interval and ratio levels of measurement. Provide examples for each. | [K] [3] |
| 15 | What are the advantages of using a Latin Square Design over a completely randomized design? | [U] [6] |

(3 × 5 = 15)

END OF THE QUESTION PAPER
