

CC- 652 Data Management and Analysis

Time - 3 Hour

Maximum Marks:50 (Pass Marks: 20)

The question paper contains 2 printed page.

Note: This question paper consists of two sections – Section A & Section B. All questions of Section A are compulsory. Attempt any three questions among the questions of section B.

Section A

(20 marks)

Attempt all questions from this section A.

Q1. Write down the correct answer from the given options.

(1 x 10 = 10 marks)

(i) A pie Chart is

- a) any form of pictorial representation of data.
- b) a chart demonstrating the increasing incidence of obesity in society.
- c) only used in catering management research.
- d) an illustration where the data are divided into proportional segments according to the share each has of the total value of the data.

(ii) Which one of these is not a way of measuring central tendency?

- a) Measuring the value, often known as the average, that includes all data values in its calculation (mean).
- b) Regression analysis.
- c) Measuring the value that occurs most frequently (mode).
- d) Measuring the middle value or mid-point after the data have been ranked (median).

(iii) Parametric and non-parametric are:

- a) Two main groups of statistical significance tests.
- b) Terms used in medical practice.
- c) Alternatives to standard deviation tests.
- d) General tests of statistical relevance.

(iv) Standard deviation is:

- a) inappropriate in management and business research.
- b) a way of illustrating crime statistics.
- c) a way of describing those phenomena that are not the norm.
- d) a way of measuring the extent of spread of quantifiable data.

(v) Quantitative data refers to:

- a) Statistical analysis
- b) graphs and tables
- c) any data present in your report
- d) numerical data that could usefully be quantified to help you answer your research question(s) and to meet your objectives.

- (vi) The chief aim of analysis is to distinguish between:
- an event occurring as either reflecting a true effect versus a one occurring by chance.
 - right from wrong
 - quality control and quality assurance
 - misrepresentation and plagiarism
- (vii) A bell-shaped curve is also known as the normal distribution.
- True
 - False
- (viii) Bivariate analysis means:
- The analysis of one variable.
 - Analysis of two variables.
 - The analysis of three or more variables.
 - None of the above
- (ix) Value of Pearson Correlation Coefficient ranges from
- Minus 1 to plus 1
 - Zero to Plus one
 - Zero to Minus one
 - None of the above
- (x) What do you mean by T-test?
- statistically significant difference between the means of two groups.
 - statistically significant difference between the means of three groups.
 - Both
 - None of these

Q2. You are working in a corporate company who has taken an evaluation study. The reasons for dissatisfactions are primarily long training hours, unseeingly training hours, poor quality of food given in the training programme. Your manager instructed you to describe it in a meaningful way and submit the report to him. Detailed information on the training is given below in a tabular form. (10 marks)

Table 1.1: Percentage distribution of respondents' opinion on satisfaction about training given to them on different subjects.

Training given	Satisfaction level of the farmers n (%)		Total
	Yes	No	
Poultry Farming	131(56.0)	32(86.5)	163 (60.1)
New agriculture methods	100(42.7)	4(10.8)	104 (38.40)
Goat farming	3(1.3)	1(2.7)	4(1.50)
Total	234(86.3)	37(13.7)	271(100.0)

Section B

(30 marks)

Attempt any three questions of the following from this section B.

Q3. What do you mean by Hypothesis and why do we formulate hypothesis? Describe null and alternate hypothesis with suitable examples.

(10 marks)

Q4. Write down short note on the followings:

- (a). Significance level or P value
- (b). Difference between Chi-square, sample T test, independent T-Test, and paired T test with example.

(10 marks)

Q5. What do you understand by data management? Explain principles of data management and its need in the development management industry.

(10 marks)

Q6. Write down short questions on **any five** of the following:

(5 x 2 =10 marks)

- (a). Ethics in data management
- (b). Significance level
- (c). Testing of Normality
- (d). Measure of Central tendency
- (e). Measure of dispersion such as range and standard deviation
- (f). Difference between CS Pro, ODK collect, Microsoft Access
- (g). Data coding, reliability, and validity