



School of Development Studies

MBA Development Management

Batch-3rd (2023-2025)

First Year, Term 3 End Term Examinations, April 2024

CC – 664 Data Analytics and Management

Time - 3 Hour

Maximum Marks: 50 (Minimum Marks: 20)

Instructions to students:

- This question paper contains 2 printed pages.
- Don't write anything on the Question Paper except writing your Enrolment No.

Part A

(Maximum Marks: 5)

Q1. Choose the correct option for the following (1 mark each):

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

Part B

(Maximum Marks: 15)

Answer any three of the following, in brief.

- Q2.** What do you understand by database design? Write down five Difference between ODK collect and Microsoft Access. (5)

- Q3.** What do you mean by Hypothesis and why do we formulate hypothesis? Describe one null and alternate hypothesis with suitable examples? (5)
- Q4.** What do you understand by data warehousing? Explain with suitable examples? (5)
- Q5.** What do you understand by database system? Describe different types of database system such as SQ. (5)
- Q6.** Write down short notes on any two: (5)
- (a). Principles of database design
 - (b). Data integrity
 - (c). Advantages of normalization
- Q7.** What is Functional Dependency? Explain types and properties of FD's. (5)
- Q8.** Why is normalization needed? Explain the process of normalization. (5)

Part C

(Maximum Marks: 30)

Answer any three of the following, in detail.

- Q9.** What do you understand by normalization. Describe different types of normalization with examples. (10)
- Q10.** 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. (10)

Detailed information on the training is given below in a tabular form. The table below shows percentage distribution of respondents' opinion on satisfaction about training given to them on different subjects.

Training given	Satisfaction level of the farmers		Total
	n (%)		
	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)

- Q11.** Write down short note on the Followings and describe how to write down the steps to calculate the statistics given below. (10)
- (a). Significance level or P value
 - (b). Difference between Chi-square, sample T test, independent T-Test, and paired T test with example
- Q12.** What do you understand by data analytics and management? Explain principles of data management and its need in the development management industry. (10)
- Q13.** What do you understand by Clustering in data analytics and K-means algorithm? (10)