



**Professional Qualification in
COMPUTING AND INFORMATION SYSTEMS
Level 4 Diploma**

UNIT 4 – INFORMATION PRESENTATION AND ANALYSIS

Question 1

- (a) **Discuss** the purpose and application of statistical methods. (10 marks)
- (b) **Explain** the importance of inference and prediction in statistical analysis. (10 marks)

Question 2

- (a) **Discuss** the relative merits of presenting data in textual, tabular, and pictographical form. (10 marks)
- (b) **Explain** the importance of APA conventions in producing interpretations of statistical data. (10 marks)

Question 3

- (a) **Explain** the reasons why there may be differences in the interpretation of the mean under different distributions with varying skew, varying kurtosis, and the presence of outliers. (10 marks)
- (b) **Discuss** the common assumptions associated with parametric and non-parametric statistics. (10 marks)

Question 4

Discuss how the relevance of statistical analyses is subject to different types of data. (20 marks)

Question 5

Discuss the design considerations for implementing different research practices. (20 marks)