



Professional Qualification in
COMPUTING AND INFORMATION SYSTEMS
Level 4 Diploma

UNIT 4 – INFORMATION PRESENTATION AND ANALYSIS

Question 1

Describe what is meant by each of the following statistical terms:

- (a) Standard deviation. (5 marks)
- (b) Variance. (5 marks)
- (c) Normal distribution. (5 marks)
- (d) Inter-quartile range. (5 marks)

Question 2

- (a) **Describe** probability theory and give examples of its application in the world of commerce. (10 marks)
- (b) **Describe TWO** types of statistical data. (10 marks)

Question 3

- (a) **Describe** the presentational differences between a bar chart and a pie chart, using illustrations to support your answer. (10 marks)
- (b) **Explain** the difference uses of box plots and scattergrams in statistical presentations. (10 marks)

Question 4

- (a) **Explain** how the mean may be interpreted differently under different distributions. (10 marks)
- (b) **Discuss** the validity, reliability, accuracy, and precision of **TWO** research instruments. (10 marks)

Question 5

Compare and **contrast** any **TWO** key philosophies which underpin empirical research and measurement. (20 marks)