



CERTIFICATE IN BUSINESS ADMINISTRATION

SAMPLE EXAMINATION PAPER

QUANTITATIVE METHODS FOR MANAGEMENT

Instructions to candidates:

- a) **Time allowed: Three hours**
- b) **Answer any FIVE questions**
- c) **All questions carry equal marks.**

1. The student enrolments of a college are summarised below:

	September	January	June
2015	245	258	342
2016	254	301	269
2017	331	365	365

Calculate the enrolment trend using the moving averages method and comment on the variations of enrolments during each academic year

2. Using the above table of student enrolments calculate the mean, median and mode and explain the meaning of each term
3. Distinguish between pie charts, bar charts and line charts and submit a visual presentation of each chart
4. Compare and contrast price indices with quantity indices and summarise the value of indices to management
5. You have been asked to explain to a group of statistics students the essential principles of probability. What information would you include in your explanations?
6. Explain what you understand by the following terms:
 - a) Primary data
 - b) Secondary data
 - c) Degree of skewness



7. Write notes on three of the following:
- Sampling frame
 - Random sampling
 - Stratified sampling
 - Systematic sampling
8. Explain what you understand by the term 'correlation coefficient' and advise a manager on the approach to use in order to calculate the correlation coefficient.