



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**SECOND YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE WITH INFORMATION
TECHNOLOGY
(MAIN CAMPUS)**

MIT 203: COLLECTION AND ORGANIZING DATA

Date: 21st November, 2013

Time: 11.00am - 1.00pm

SECTION A: Attempt all questions in this section (30 marks)

1. Define the following terms
 - a. Questionnaires (1 mark)
 - b. research question(1 mark)
2. Describe how to annotate a questionnaires(2 marks)
3. List five elements of a data dictionary or a define file(5 marks)
4. Differentiate between two types of databases; flat files and relational databases(1 marks)
5. State the purpose of the following domains and give one example of the table domain
 - a. Special-Purpose Domains (2 marks)
 - b. Observation Classes (2 marks)
 - c. Relationships (2 marks)
 - d. Trial Design (2 marks)
6. List two tools for data entry(2 marks)
7. Explain how you would retrieve data from excel to SAS or SPSS or STATA.(5 marks)
8. When cleaning data list any five items you would be looking for(5 marks)

SECTION C: Attempt any 2 questions out of the 4 questions (20 marks each)

9. Explain what is mean by the following data preparation methods and give an example
 - a. Sorting(3 mark)
 - b. Concatenating(3 mark)
 - c. Merging(3 mark)
 - d. Computing(3 mark)
 - e. Recording(4 mark)
 - f. Transformation(4 mark)

10. The chart below shows average donations for some of the regions of Canada. Make a graphical representation of this data and discuss its meaning.(20 marks)

Year	Atlantic	Ontario	Prairies
1969	805	1176	1068
1978		1312	1482
1982	1109	1580	1580
1986	1490		1997
		1678	1928
1996	1546	2020	2036
Mean	1235	1575	

11. Formulate a research question(6 marks)
 - a. Justify the study(7 marks)
 - b. Formulate your main objective(4 marks)
 - c. Formulate a null hypothesis(3 marks)
12. Make a short questionnaire of the data that will help you answer you research question in Q11(10 marks)
 - a. Make a data dictionary for this questionnaire(10 marks)