UGANDA MARTYRS UNIVERSITY

FACULTY OF SCIENCE DEPARTMENT OF MATHEMATICS/ STATISTICS

UNIVERSITY EXAMINATIONS SEMESTER I, 2013/14

FIRST YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE (IT, FM, B.ECON & GEN)

STA 1102: STATISTICAL ORGANIZATION

DATE: 17TH DECEMBER 2013

TIME: 2:00 - **5**:00 PM

Instructions:

i) Qn 1 (one) is compulsory

ii) Attempt only 4 Questions in ALL.

Question 1

1. An organization of which you are the administration manager is trying to come up with the policy on how much fuel they should give to their salesmen. In pursuit of that objective you monitor 50 salesmen as to how much fuel they consume in a week and the following are the findings.

420	445	445	445
459	421	478	462
424	449	407	463
444	443	433	479
455	416	466	435
495	447	452	439
426	453	412	456
436	428	436	419
502	454	450	456
438	474	500	477
	459 424 444 455 495 426 436 502	459 421 424 449 444 443 455 416 495 447 426 453 436 428 502 454	459 421 478 424 449 407 444 443 433 455 416 466 495 447 452 426 453 412 436 428 436 502 454 450

REQUIRED

- (i) Using a suitable class interval, form a frequency distribution table for the above data.
- (ii) Compute mean, mode, median, absolute mean deviation and standard deviation for the above distribution.
- (iii) Draw a histogram representing the above data.
- (iii) Show whether the above distribution is normal or skewed

Question. 2

- (a) Define the following terms as applied statistical organization
 - (i) Statistics
 - (ii) Sample
 - (iii) Sampling frame
 - (iv) Sampling units
- (b) State the relevancy of statistical department in any governmental or nongovernmental organization.
- © Distinguish between.
 - (i) Primary and secondary data
 - (ii) Published and unpublished data.

Question.3

(a) State the different methods of organizing and presenting research data. In each case state the merits and demerits of the method.

(b) Explain the stages of data organization in research analysis.

Question. 4

- (a) What is the importance of pre-tests and Pilot surveys?
- (b) Identify and explain methods of choosing a sample from the population

Question.5.

- (a) Identify the purpose of statistics to any organization
- (b) List methods of data collection.
- © What are the rules of data coding?

Question.6.

(a) What is a questionnaire?

(b) What is the importance of questionnaire in survey designing?

© What factors and principles would you take into account when designing the questionnaire?

END