

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2013/2014

THIRD YEAR, FIRST SEMESTER EXAMINATIONS FOR DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION

AFN 2302: NUTRITION SURVEYS

DATE: APRIL 2014

TIME: 2 HOURS

(5 Marks)

INSTRUCTIONS: Answer question **one** and any other **two** questions

QUESTION ONE – (30 MARKS)

- (a) Define the following terms:
 - (i) Design effect
 - (ii) Weight for age
 - (iii) Percentage of the median
 - (iv) Global acute malnutrition (GAM)
 - (v) Z-score
- (b) State any five specific objectives of a nutrition survey. (5 Marks)
- (c) State five justifications that should guide the decision to carry out a nutrition survey. (5 Marks)

(d) Explain what is increasing to allow for contingencies in sample size calculations and its

- importance. (5 Marks)
 (e) State the four things you need to consider for calculating sample size for anthropometric data and how to arrive at a feasible sample size. (5 Marks)
- (f) Briefly explain what is "appraisal of the context" in conducting a nutrition survey and its importance.
 (5 Marks)

QUESTION TWO – (20 MARKS)

(a) State any five questions you need to answer in deciding whether to do a nutrition survey. (5 Marks)
 (b) State and explain methods for sample selection recommended for nutrition and mortality survey. (15 Marks)

QUESTION THREE – (20 MARKS)

(a) Define age – specific mortality rate for children under five (ASMR – U5)	and under –
five mortality rate (USMR).	(5 Marks)
(b) Make a comparison between ASMR – U5 and USMR.	(5 Marks)
(c) Describe the steps in conducting systematic random sampling.	(5 Marks)

QUESTION FOUR – (20 MARKS)

Describe the steps in conducting two stage cluster sampling.	(20 Marks)
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