MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY
P.O. Box 972-60200 - Meru-Kenya.

Tel: 020-2069349, 061-2309217.064-30320 Cell phone: +254 712524293, +254 789151411
Fax: 064-30321
Website: www.must.ac.ke Email: info@must.ac.ke
University Examinations 2013/2014
THIRD YEAR, FIRST SEMESTER EXAMINATIONS FOR DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION

AFN 2301: NUTRITIONAL EPIDEMIOLOGY II

TIME: 2 HOURS
INSTRUCTIONS: Answer question one and any other two questions
QUESTION ONE - (30 MARKS)
(a) Define the following terms:
(i) Sedentary behavior
(ii) Physical activity level (PAL)
(iii) Relative weight
(iv) Lean body mass
(v) Multivariate adjustment for height
(5 Marks)
(b) Differentiate between physical fitness and physical activity.
(c) Differentiate between random and systematic errors.
(d) Briefly describe densitometry.
(e) Briefly discus the reproducibility and validity of weight and height measurements.
(f) Briefly explain how weight and height are related to the nutritional status. (5 Marks)

## QUESTION TWO - (20 MARKS)

(a) State the reasons why total energy intake deserves special consideration in nutritional epidemiology.
(b) State and describe the determinants of between - person variation in total energy intake.
(c) Discuss the adjustment for energy intake in epidemiologic analyses.

## QUESTION THREE - (20 MARKS)

(a) Discuss the importance and nature of variation in diet in relation to nutritional epidemiology.
(10 Marks)
(b) Discuss the effects of random within - person variation on measures of association in epidemiologic studies.
(10 Marks)

## QUESTION FOUR - (20 MARKS)

(a) Briefly discuss self-reported weight and height.
(5 Marks)
(b) State and discuss the analytic issues in the assessment of physical activity. (15 Marks)

