THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL OF TANZANIA ADVANCED CERTIFICATE OF SECONDARY EDUCATTION EXAMINATION

155/1

FOOD AND HUMAN NUTRITION 1

(For Both School and Private Candidates)

Time: 3 Hours Thursday, 10th May 2018 a.m

Instructions

- 1. This paper consists of sections **A** and **B**.
- 2. Answer all questions in section A and only Three (3) questions from section B.
- 3. Cellular phones and any unauthorised materials are **not** allowed in the examination room.
- 4. Write your **examination Number** on every page of your answer booklet(s).



ACSEE-0518

SECTION A (40 Marks)

Answer **ALL** questions in this section.

Each question carries eight (8) marks.

- 1. (a) Differentiate between saturated fats and unsaturated fats.
 - (b) Identify the three major groups of carbohydrates basing on their chemical structures and give one example in each group.
- 2. Explain briefly four factors which affect Basal Metabolic Rates.
- 3. (a) Define the term food security.
 - (b) Identify three essential requirements of household food security.
 - (c) Describe briefly four factors that influence the availability of sufficient food to all household members.
- 4. Describe briefly the importance of the followings in bread making.
 - (a) wheat flour
 - (b) fresh yeast
 - (c) warm liquid
 - (d) table salt
- 5. Describe briefly eight factors which influence the choice of food we eat.

SECTION B (60 Marks)

Answer only **three** questions from this question.

Each question carries **Twenty (20)** Marks.

- 6. "Air and carbon dioxide gas are leavening agents that should be introduced into the flour mixture before baking". Elaborate this statement by describing:
 - (a) five ways of introducing air into a flour mixture;
 - (b) three chemical ways of introducing carbon dioxide gas into the flour mixture
 - (c) one biological way of introducing carbon dioxide gas into the flour mixture.
- 7. Describe six natural compounds used to protect food grains against pest infestations and state the effect of each compound to the food grain pests.

8.	"The quality of a milled product is determined by the characteristics of the milled seeds". Support
	this statement by explaining

- (a) six factors to consider before milling grains.
- (b) the four steps of wet milling process.
- 9. Support the statement, "The handling procedures in food processing convert the food into consumable form", by
 - (a) describing the three stages of handling food in food processing
 - (b) six effects of drying food grains on their quality.
- 10. Describe six categories of the primary causes of food losses.