## THE NATIONAL EXAMINATIONS COUNCIL OF TANZANIA



## CANDIDATES' ITEM RESPONSE ANALYSIS REPORT FOR THE CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (CSEE) 2018

# **051 FOOD AND NUTRITION**

## THE NATIONAL EXAMINATIONS COUNCIL OF TANZANIA



## CANDIDATES' ITEM RESPONSE ANALYSIS REPORT FOR THE FORM FOUR NATIONAL EXAMINATION (CSEE) 2018

**051 FOOD AND NUTRITION** 

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#### **FOREWORD**

The candidates' Items Response Analysis Report for the Certificate of Secondary Education Examination (CSEE) 2018, in Food and Nutrition theory paper was prepared to provide feedback to education stakeholders about the candidates' performance in this subject. These are candidates, teachers, parents, policy makers and the community as whole. It focuses on identifying and highlighting the strengths and weaknesses of candidates' responses in the assessed topics which were covered in four years of Ordinary Secondary Education. It also identifies areas which need improvements and suggests measures to be taken by education officers, education administrators, school managers, school quality assurers, heads of schools, teachers and students to improve teaching and learning process.

The analysis presented in this report is intended to contribute towards the understanding of some reasons behind the candidates' poor or good performance in Food and Nutrition subject. The report highlights some of the factors that made candidates score high or low marks in the questions. The factors which led candidates score high marks included: ability of the candidates to understand the demands of the questions and sufficient knowledge and skills of the subject matter. However, the factors which contributed to the candidates' poor performance in some of the questions included: failure to identify the demands of the questions, insufficient knowledge of basic concepts of Food and Nutrition and poor proficiency in English Language. The feedback provided in this report will enable the education stakeholders to come up with proper measures in order to improve teaching and learning processes hence, good candidates' performance in future examinations administered by the Council.

Finally, the National Examinations Council of Tanzania would like to thank everyone who participated in the preparation of this report.

Dr. Charles E. Msonde

#### 1.0 INTRODUCTION

This report analyses the candidates' performance in Food and Nutrition theory examination for the candidates who sat for Certificate of Secondary Education Examination (CSEE) in November, 2018. The examination assessed competences according to the 1997 Home Economics Syllabus.

The paper was divided into three sections; A, B and C with a total of eleven (11) questions. Section A consisted of two (2) objective questions each carried 10 marks. Section B consisted of six (6) short answer questions with 10 marks each. Section C had three (3) essay questions each carried 20 marks. Section A and B were compulsory while in section C, the candidates were required to answer only one question.

The analysis of examination results shows that 2,214 candidates sat for this examination of which 2,211 had clean results and the results of 3 candidates were withheld for various reasons. The analysis further indicates that 2,179 (98.55%) candidates passed the examination as follows: 68 (3.07%) obtained grade A, 580 (26.23%) obtained grade B, 1,367 (61.83%) obtained grade C and 164 (7.42%) obtained grade D. However, 32 (1.45%) candidates failed the examination by obtaining grade F. The candidates' performance in 2018 was better compared to that of 2017 with a difference of 0.4 percent.

In this report, the performance of candidates in each question is regarded as good if they scored from 65 to 100 percent. It is considered average if the candidates scored from 30 to 64 percent, and poor (weak) if the score is from 0 to 29 percent. Good, average and poor performances are indicated by using green, yellow and red colours, respectively presented in figures and appendix A. The pass mark for each question was 30 percent of the marks allocated and above.

This report provides the analysis of each question by giving an overview of what the candidates were required to do, the general performance and the reasons behind their performance. The sample extracts of candidates' responses and graphs that indicate distribution of candidates' scores are presented to support the analysis.

# 2.0 ANALYSIS OF THE CANDIDATES' PERFORMANCE IN EACH QUESTION

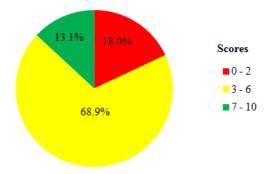
### 2.1 Section A: Objective Questions

This section consisted of two compulsory questions which are *multiple choice items* and *matching items*. Each question consisted of 10 items carrying 01 mark each, making a total of 20 marks for the whole section.

#### 2.1.1 Question 1: Various Topics

This question consisted of multiple choice items (i) to (x) set from the topics of *Public Health Services*, *Laundering in the Home, Beverages*, *Methods of Cooking, Meat, Pastry, Eggs, Packed meals, Cereals* and *Food Preservation*. The question instructed the candidates to choose a correct answer from among the given five alternatives and write its letter beside the item number in the answer booklet provided.

All candidates 2,209 (100%) attempted this question. The general performance for this question was good since 1,806 (82.0%) candidates scored average and above. The analysis of the performance indicates that 290 (13.1%) candidates scored from 7 to 9 marks, 1521 (68.9%) scored from 3 to 6 marks and 397 (18.0%) scored from 0 to 2 marks. No one scored full marks. The performance for this question is illustrated in Figure 1.



**Figure 1:** The percentages of candidates' performance in question 1

The analysis of the candidates' responses in the items of this question is as follows:

Item (i) required the candidates to identify the reason of providing curative health services during disease outbreak. The correct response was D, for treatment. The candidates who opted for the correct response were aware that curative health services are the services that treat patients with the aim of curing them. However, some candidates opted for A, for prevention or C, for immunization as they failed to realize that these are the reasons of providing preventative health services before disease outbreak. Those who opted for B, for diagnosis or E, for consultation failed to understand that these are the reasons of providing diagnostic and consultative health services respectively, and not curative health services.

In item (ii), the candidates were given a laundry code and asked to identify its meaning.



The correct response was B, *dry cleaning*. The candidates who opted for this response had adequate knowledge and practical skills on laundry codes or symbols. They understood that a code of a square with a circle in the middle of it represents dry cleaning. The candidates who opted for A, *drip dry* failed to understand that a basic code for drip drying is a square with three vertical lines inside. Those who opted for C, *bleaching* failed to comprehend that a basic bleach code is a triangle. The candidates who opted for D, *ironing* did not understand that the ironing code is an outline of an iron. Furthermore, those who chose E, *washing* failed to understand that a washing code consists of a bucket with scalloped line across the top, or a stylized washtub, and not a square with a circle in the middle of it.

In item (iii), the candidates were required to identify a compound which produces the stimulating effect in tea. The correct answer was C, *tannins*, which was opted by few candidates who were aware of the types of stimulants found in beverages. The candidates who opted for other distractors had inadequate knowledge on the compounds found in beverages and their functions. Those who opted for A, *phenolic* did not understand that phenolic compounds are responsible for colour, flavour and substrates for enzymatic browning of plant based foods, and not stimulants. The majority of candidates incorrectly chose alternative B, *caffeine*. These

candidates failed to understand that tea contains very small amount of caffeine that cannot cause stimulation. Those who opted for D, *cocaine*, failed to understand that cocaine is not found in tea. The candidates who chose E, *aroma*, did not understand that the aroma in tea is not strong enough to cause stimulation.

Item (iv) required the candidates to identify a kitchen material useful for covering food to prevent it from drying out. The correct response D, cling film was selected by the candidates who had adequate knowledge and practical skills on the different kitchen materials used for sealing/covering, cooking, lining, packing, storage and wrapping food. They were aware that cling film is a thin, clear and stretchy plastic that can be used to seal/cover food in order to keep it fresh over a long period. The majority of candidates who opted for incorrect responses selected A, kitchen foil or E, aluminium foil. These candidates failed to realize that these are suitable materials for cooking, baking, and wrapping food, but not for covering food in order to prevent it from drying out. The candidates who opted for B, kitchen paper failed to understand that a kitchen paper is an absorbent paper used for drying and cleaning. Those who opted for C, roasta bag failed to understand that this material is used for cooking large portions of meat, poultry, fish and vegetables evenly in order to make them tender, and not for covering food.

In item (v), the candidates were required to identify the name of a slice of meat with no bones. The correct answer B, *fillet* was opted by the candidates with adequate knowledge on the cuts of meat. The candidates who opted for A, *beef*, D, *mutton* and E, *veal* were not aware that these are meat from cattle/adult cows, adult sheep and calves/young cows respectively. Few candidates opted for C, *offal* as it has no bones but failed to remember that offal is the internal organs/organ meats of an animal, and not a slice of meat.

Item (vi) required the candidates to identify the aim of relaxing the pastry dough. The correct response A, to soften the gluten was chosen by the candidates with adequate skills on the steps involved in making a good quality pastry and the aim of each step. The candidates who opted for alternative B, to prevent skinning or D, to allow shaping failed to differentiate the steps of pastry making with those of bread making. In

pastry making procedure, skinning does not occur due to the use of large amount of fat, and there is no step of allowing shaping. Those who opted for C, *allow cooling*, failed to understand that cooling is allowed after cooking the pastry by keeping it in a proper drying kitchen equipment. On the other hand, the candidates who opted for E, *to prevent sticking* did not understand that sticking is prevented by adding a little more flour to the dough, and not by relaxing it.

In item (vii), the candidates were required to give a reason for not washing eggs. The correct response was D, bacteria and odour will easily penetrate the egg shell. The candidate who opted for the correct response had sufficient knowledge on the structure of an egg. They were aware that during washing, water affect the natural barriers in the egg shell and allow bacteria and odour found on the shell to pass into the egg through the pores in the shell. The candidates who opted for A, they will easily form air space at one end of the egg failed to understand that air space is a part of the egg and not formed by washing it. Those who opted for B, water will pass through and affect the content of the egg or C, water separates the two membranes and spoil the egg failed to understand that during washing of the egg water can pass through the egg shell but cannot affect its content or separate the two membranes. The candidates who chose E, egg shell become soft and may crack easily when boiled failed to understand that egg shell is made up of calcium carbonate which cannot be softened by the washing water.

The candidates were required to give a characteristic of containers and wrappers used for packing food in item (viii). The correct response was C, hygienic to keep the food safe. The candidates who managed to opt for the correct answer were familiar with the suitable materials used for wrapping and packing food, and the advantages of using suitable materials. The candidates who opted for A, wet to avoid drying of the food did not understand that wet containers may contaminate the food. Those who opted for B, greasy to make the food tender did not understand that food is made tender during preparation and not by greasing the wrapping and packing containers. The candidates who opted for D, black to hide the packed food and E, transparent to show the food were not aware that the colour and transparency of food wrappers and packing containers have no effect on the food.

Item (ix) required the candidates to give a reason for soaking dried pulses. The correct response was E, *soften the outer skin*. The candidates who opted for the correct response had adequate knowledge and practical skills on the preparation and cooking of dried pulses. These candidates were aware that soaking dried pulses soften the outer skin and shorten their cooking time. The candidates who opted for A, *make them digestible* or C, *make them delicious* failed to realize that these are the reasons for cooking food. Those who opted for B, *add its nutritive value* or D, *preserve nutrients* failed to understand that soaking dried pulses remove some of their nutrients but not add or preserve them. The nutrients removed by soaking dried pulses include, oligosaccharides, water soluble vitamins such as riboflavin, thiamine and folic acid, and non soluble nutrients such as calcium and magnesium.

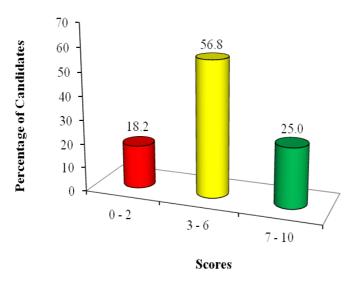
In item (x), the candidates were required to give the reason of using sugar, vinegar and salts in the food preservation process. The correct response was B, are anti-microbial substances. The candidates who opted for the correct response were knowledgeable on the types of preservatives and their roles in preserving food. The candidates who opted for the incorrect responses A, increases the taste of food, C, makes the food delicious and D, adds flavour to the food failed to realize that these are the roles of sugar, vinegar and salts in food preparation and cooking and not in the food preservation process. Those who opted for E, aids fermentation of food failed to understand that fermentation is one of the methods of preserving food by using bacteria or permitted chemicals, and not the reason of using sugar, vinegar and salts in the process of food preservation.

## 2.1.2 Question 2: Kitchen Planning

This question comprised of ten matching items from the subtopic of *Kitchen Equipment*. The candidates were instructed to match the items in **List A** with responses in **List B** by writing the letter of the correct response beside the item number in the answer booklet provided. This question tested the candidate' understanding on the functions of different kitchen equipment.

The question was attempted by 2,207 (99.9%) candidates, while 2 (0.1%) candidates did not attempt it. Data analysis indicates that 552 (25.0%) candidates scored from 7 to 10 marks, 1,254 (56.8%) scored from 3 to 6

marks and 401 (18.2%) scored from 0 to 2 marks. These data show good performance since 1,806 (81.8%) candidates scored 30 percent and above of the allocated marks, as presented in Figure 2.



**Figure 2:** The percentages of candidates' performance in question 2

The candidates who performed well in this question had adequate knowledge and practical skills on the types of kitchen equipment and their proper uses. They were able to match all the uses of kitchen equipment with the correct responses. The analysis of the responses in the items of this question is as follows:

In item (i), the candidates were required to identify a kitchen tool used for creaming, mixing and stirring porridge. The correct response was N, wooden spoon. The candidates who opted for the correct response understood the uses of wooden spoon in the kitchen. However, some candidates incorrectly opted for J, whisker or K, food mixer because they failed to read the statement carefully enough to know that whisker and food mixer can be used to cream and mix food, but not to stir porridge.

The candidates were required to identify an appliance used for creaming cake, chopping meat or vegetables and chopping potatoes in item (ii). The correct response was K, food mixer. Some candidates opted for F, blender as they failed to understand that this appliance can be used to cream cake and mash potatoes, but not to chop meat and vegetables. Others opted for

H, *grater* because they lacked the practical skills on the proper use of this appliance.

Item (iii) required the candidates to identify a cooking equipment that heats food by using high frequency power. The correct response was I, microwave. The candidates who managed to give the correct response had adequate practical skills on how this equipment operates to heat the food. However, majority of the candidates opted for incorrect response G, pressure cooker as they failed to understand that a pressure cooker uses steam at high pressure to cook the food, but not high frequency power. Few candidates opted for D, casserole and others for I, iron pot because they lacked knowledge on the correct use of kitchen tools.

In item (iv), the candidates were required to identify a *cooking equipment* that cooks food in a very short time. The correct response was *G*, pressure cooker which was opted by the candidates with adequate skills on how it works. Some candidates chose option *I*, microwave while others opted for D, casserole because they failed to understand that these equipments do not cook food in a very short time.

Item (v) required the candidates to identify a *cooking utensil that can be used for cooking and serving food*. The correct response was *D*, *casserole*. The candidates who matched this item correctly had adequate knowledge on the proper use of this kitchen equipment. The majority of candidates opted for a variety of irrelevant responses because they lacked knowledge of an equipment with such uses.

The candidates were required in item (vi) to identify a kitchen tool which is suitable for keeping cakes and biscuits to allow cooling. The correct response was B, wire rack. The item was correctly answered by the majority of candidates who had a clear understanding that cakes and biscuits are cooled on a wire rack which is specially made to allow air to freely circulate around the cake and biscuit and enable the steam to escape. A few candidates who opted for incorrect response D, casserole did not understand that casserole is used for cooking and serving food, but not for keeping cooked cakes and biscuits to allow cooling.

In items (vii), the candidates were required to identify the *equipment which* is used when preparing egg and egg mixtures. The correct response was J, whisker. The candidates who selected the correct response were aware that a whisker is used to beat or whisk the egg and egg mixtures very fast in order to trap air. Some candidates were attracted by the option K, food mixer because they associated the words egg mixtures from the stem of the question and food mixer in the responses. They failed to realize that other types of food mixers do not have whisking attachment suitable for the preparation of egg and egg mixtures.

The candidates were instructed to identify a kitchen utensil useful for draining vegetables and pasta into small pieces in item (viii). The correct response was A, colander. The candidates who chose the correct response understood that a colander has holes which drain the food. Of the candidates who opted for incorrect responses, the majority chose E, sieve. These candidates failed to understand that a sieve is correctly used for sifting but not for draining.

Item (ix) required the candidates to identify a tool useful for cutting carrot and other foods like cheese. The correct response was H, grater. The candidates who managed to choose the correct response understood that a grater has a well designed rough surface for cutting foods like carrots and cheese into different small shapes. The candidates who chose alternative O, large knife failed to understand that a large knife can be used for cutting carrots and other solid foods, but cheese is cut by using forked/cheese knife or grater. Those who opted for F, blender failed to understand that blender is used for mixing liquids and soft foods together, or turning foods into liquid form, but not for cutting solid foods.

In item (x), the candidates were required to identify a tool useful for sifting solid and liquid foods during food preparation. The correct response was E, sieve. The candidates who selected the correct response realized that a sieve is used to separate and break up clumps in dry ingredients, and separate solids from liquid foods during food preparation. The majority of candidates who chose incorrect responses opted for A, colander. These candidates failed to differentiate the use of a sieve from that of a colander in food preparation as both have small holes.

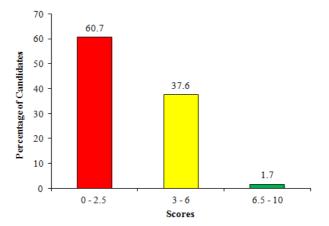
### 2.2 Section B: Short Answer Questions

This section had six compulsory questions from the topics of *Food and Nutrition, Food Preservation, Packed Meals, Cleaning Agents, Vegetables and Fruits* and *Kitchen and Food Hygiene*. Each question carried 10 marks and consisted of three parts; (a), (b) and (c).

#### 2.2.1 Question 3: Food and Nutrition

The question required the candidates to classify vitamins according to their solubility in part (a), while in part (b) candidates were required to outline four importance of niacin in the body. In addition, the candidates were supposed to briefly explain four functions of minerals in the body which formed part (c) of this question.

The analysis shows that the question was attempted by 2,174 (98.4%) candidates of which 36 (1.7%) scored from 6.5 to 9.5 marks, 818 (37.6%) scored from 3 to 6 marks, and 1,320 (60.7%) scored from 0 to 2.5 marks out of 10. The candidates' performance for this question was average since 854 (39.3%) candidates scored 3 marks and above. Figure 3 gives a summary of this performance.



**Figure 3**: The percentages of candidates' performance in question 3

The analysis of candidates' responses reveals that those who scored from 3 to 9.5 marks had sufficient knowledge on the food nutrients required by the human body, and the functions of each nutrient. Most of them were able to classify vitamins according to their solubility as *water soluble* and *fat soluble vitamins* in part (a). A few candidates also managed to outline the

importance of niacin in the body in part (b). However, a good number of candidates responded contrary to the demands of this part of the question, while others provided two to three correct points instead of the required four. For example, one candidate wrote:

- (i) it helps in formation of nerve system,
- (ii) it prevent some diseases such as pellagra and mental problems,
- (iii) it enable production energy from food sources and
- (iv) it ensures the proper occurrence of metabolism.

The candidate provided two correct and two incorrect points, hence failed to scored all the 4 marks allocated to this part.

Moreover, the candidates were also able to explain the functions of minerals in the body in part (c). The correct functions of minerals provided by these candidates included: they play a role in the formation and strengthening bones and teeth for example calcium and phosphorus, essential for formation of haemoglobin such as iron mineral, are the components of different cells of the body and help in muscle contraction for example potassium and sodium. Other mentioned functions were: important for nerve transmission, to maintain acid-base balance, important in blood clotting and for proper fluid balance for example sodium, chloride and potassium.

On the other hand, the majority of candidates who performed poorly in this question had inadequate knowledge on the subject matter. Others failed to understand the demands of all parts of the question. In part (a), most candidates mentioned the types of vitamins instead of classifying them according to their solubility. A few candidates gave the functions of vitamins in the body. They mentioned functions such as, *proper body growth*, *protect the body from disease*, *regulation of minerals for body use* and *maintain body good health*.

The majority of candidates did not understand what niacin is hence provided irrelevant responses in part (b) of the question. They did not understand that niacin is vitamin  $B_3$  which is also known as nicotinic acid. This vitamin is required for release of energy from foods, growth in children, healthy skin, prevention of mental disorders and pellagra, as well as maintenance of the nervous system. Others skipped this part due to lack of knowledge.

Furthermore, in part (c), some candidates failed to differentiate between the functions of minerals in the body with those of foods. As a result, they mentioned the general functions of food in the body such as, for proper function of the body, for body growth, to repair worn out tissues, to provide heat and to provide the body with energy. The candidates with insufficient knowledge on the functions of minerals in the body provided unrelated responses. Some of the irrelevant functions mentioned were: to transfer nutrients to all parts of the body, to provide useful nutrients, making the body clean, to balance meals, for body safety and to guide for proper growth in the body. Extract 3 is a sample answer from a script of a candidate with weak performance.

#### Extract 3

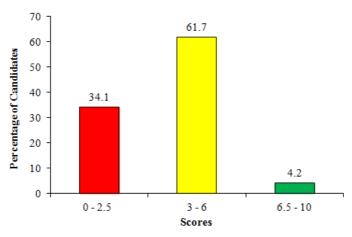
3. a). Nitamin B	
· Vitamin C	
· Vitamin A	
· Vitamia D	
· Vitamin K	
5) importances of macin are	
ilt protect the body from discases	
ett gives budy energy.	
. It streng them body immunity	
· It used to prevent rickets.	
c) Function of minerals are	
. To strengthern the body	
· To gives body energy	
. To provide nutrients that unful to present	
dsorders	
. To clean the blood which dusted.	

In Extract 3, the candidate mentioned types of vitamins instead of classes of vitamins according to their solubility in part (a). The candidate provided irrelevant responses in parts (b) and (c) because he/she had insufficient knowledge on the functions of nutrients in the body.

#### 2.2.2 Question 4: Food Preservation

The candidates were required to outline three aims of preserving food in part (a). In part (b), the candidates were required to state four principles of preserving food, while in part (c), they were required to describe three methods that can be used to preserve vegetables.

This question was attempted by 2,189 (99.1%) candidates of which 91 (4.2%) scored from 6 to 10 marks, 1,351 (61.7%) scored from 3 to 6 marks and 747 (34.1%) scored from 0 to 2 marks out of 10. The general performance for this question was good because 1,442 (95.8%) candidates who attempted this question scored average and above, as illustrated in Figure 4.



**Figure 4:** The percentages of candidates' performance in question 4

The analysis shows that the candidates with good performance had adequate knowledge on food preservation, particularly on the reasons for preserving foods and various methods used in food preservation. In part (a), the candidates understood that foods are preserved to prevent food contamination, spoilage and decay, and retain qualities of fresh food. The candidates managed to state the principles which are applied in food preservation in part (b). In addition, most candidates managed to describe the methods that can be used to preserve vegetables in part (c). This shows that these candidates had sufficient practical skills on the preservation of vegetables. They explained methods used to preserve vegetables such as, reduction of temperature, sterilization of vegetables, reducing temperature, use allowed chemicals, dehydration and exclusion of air by bottling and

canning. Extract 4.1 is a response from a script of one of the candidates who performed well in this question.

## Extract 4.1

4	Di To prevent wartage or pood which was except.      To get pood in security that and of the pood.
	1) To provent them from getting bad or decaying
	in To prevent wartage of food which was excess.
	in To get poor in reasons or during the end of the poor
	wamp.
	D Principles for preserving food:
	D Exclusion or oir
	Diffrinciples for preserving food:  Diffrinciples for preserving food:  In this principles food is preserved by removing all air and closing it in a tight container to avoid decaying tocause of the runified of micro-organism.
	It in a tight container to awid decaying because or the runified
	ot micro-organium.
	in Odraphrotion (Moisture 15 removed) that is Removal of moisture
	in Dobastrotion. (Moisture 15 removed) that is bemad of maidure.  In this proper mointure is removed to prevent good or easy weather condition for the growth of micro opportunit.
	condition for the angulh or micro proprietor.
i	
	id ford is prosen (reprigoration) or Charge in temperature  It's a principle of which pood is keept under law temperature  to make micro bacteria definant.
	It's a principle or which word is least under law temperature
	to make mem brutagia desmart.
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	O Methadi:
	2) Aming Cuillest his air or other resucces).
	Drying. Ceither by sun or other sources).  This is a nection in which pood is dried to remove all mointure.  Vegetables can be died to present thom, example polates dry when
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I the method or preserving and by heating it and enclosing it	in
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a freezoe boarnes preservad.	
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In Extract 4.1, the candidate managed to give correct responses in all parts of the question, hence scored good marks.

On the other hand, some candidates who performed poorly in this question had inadequate knowledge on food preservation. Others either failed to understand the demands of some parts of the question or misinterpreted them. In part (a), for example, some candidates mentioned the methods of cooking foods instead of aims of preserving foods. For instance, one candidate wrote, *frying*, *grilling* and *baking*. Others mentioned the methods of preserving foods. Those who lacked knowledge on the reasons for preserving foods provided irrelevant responses. For example, one candidate wrote, *recycling of foods*, *reducing the volume* and *reusing foods*. Another candidate wrote, *for preparation of food properly, use machine for food processing, follow personal hygiene in preserving foods* and *food should be put in dry places for preserving*.

Most candidates misunderstood the demand of part (b) of the question, hence provided irrelevant responses. Some mentioned the methods of preserving foods; others listed the chemical additives which are used in food processing which include *sugar*, *cooking salt*, *vinegar*, *smoke* and *spices*, instead of the principles of preserving foods. Furthermore, of the candidates who misunderstood the demand of part (c) of the question, some outlined methods which are used to cook vegetables instead of methods of preserving vegetables. For example, one candidate mentioned *steaming*, *boiling* and *frying* methods which are used to cook green vegetables. These responses indicate inadequate knowledge the candidates had on food preservation. Other candidates demonstrated poor command of English Language as they failed to express their ideas clearly. Extract 4.2 is a

sample of a response from a script of one of the candidates with poor performance.

#### Extract 4.2

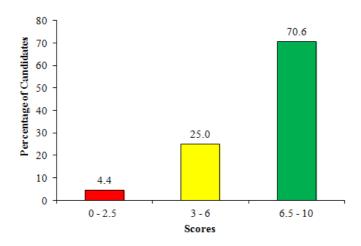
di vegetable driving	
ii vegetable Salay palked ford	
iii vagetable Caberr parked	
Bilt to packed fire	
is Lt to Show the ford	
iii It to be driging of the food	
in it cooking and pecked perod	
ci boiling	
ii seving	
Iti coolling	

In Extract 4.2, the candidate failed to respond correctly to any of the parts. The candidate also showed a poor command of English Language as he/she failed to state correctly the responses in parts (a) and (b).

#### 2.2.3 **Ouestion 5: Packed Meals**

Part (a) of the question required the candidates to give the meaning of packed meals. Part (b) (i) needed them to identify four types of equipment used for packing meals, and in part (b) (ii), to name suitable food to be packed using equipment identified in (b) (i). In part (c), they were needed to briefly explain four points to consider when planning and packing meals.

This question was attempted by 2.206 (99.9%) candidates. This means, 3 (0.1%) candidates did not attempt this question. The question had good performance since the majority of candidates 2,109 (95.6%) scored 3 marks and above. The candidates who scored from 6.5 to 10 marks were 1,558 (70.6). According to the analysis, 117 (5.3%) candidates scored full (10) marks. In addition, 551 (25.0%) candidates scored from 3 to 6 marks, while only 97 (4.4%) candidates scored from 0 to 2.5 marks. Figure 5 illustrates this performance.



**Figure 5:** The percentages of candidates' performance in question 5

The analysis of the responses shows that the majority of candidates with good performance in this question were able to give the correct meaning of packed meals in part (a). They managed to define packed meals as the meals *prepared and taken to be eaten at work, school, hospital* or *a trip*.

In part (b), most candidates correctly identified the types of the equipment used for packing the meals in (b) (i). They also correctly named the suitable foods to be packed by using the packing equipment they identified in (b) (ii). The identified equipment included: thermos/flasks, plastic containers, polythene bags, plastic bottles, hot pots, tiffin carriers, aluminium foil and grease proof papers.

In part (c), the candidates managed to explain the points to consider when planning and packing the meals. However, some candidates failed to score full marks in this part because they provided less than the four correct points required. A sample of correct response in this question is presented in Extract 5.1.

## Extract 5.1

red at home but are eaten far away from	<u> </u>
home.	
o) i) Types of equipments used for purking.	
1) Tippin currier	
> Foil papers	
3) Containers	
+) Thermos	
*	
ii) Name the foul to be packed in:-	
1) Tiffin Carrier example meal balls, egg omlet	
2) Foil paper example calles, Chicken	
3) Containers example Pilau, rice	
4) Thermos example Tea with milk, Soups.	
Points 1-0 consider when planing and pucking meals	
1) Consider the age of the person one is planning	
cor. When one is one years old you should not room	4
solid foods which he or she won't be able to eat	
or very spicy foods-	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Consider type of occasion, when one is preparing	
cor a birthday party of a baby consider types oc	
trinks to be hept example fruit juice, sodas but	
drinks to be kept example fruit juice, sodas but	
drinks to be kept example fruit juice, sodas but to not put alcohol.  3) Consider type of meal to be packed do not	
drinks to be kept example fruit juice, sodas but	

5)	4) Make sure the food which is packed is well	
	balanced. Do not: cook only one type of food nutrie-	
	nt and one lives one or more types or food	
	nutrients. Example one should rook por or pack	
1	Fried putatues, Chicken, fruit juice, water.	
	' '	

Extract 5.1 shows the responses from the candidate who managed to respond correctly in all parts of the question.

The analysis of the responses shows that, only 97 (4.4%) candidates scored below average. The responses provided show that these candidates did not understand the demands of some parts of the question. As a result, a number of candidates failed to provide the correct responses. In part (a), for example, some candidates failed to define packed meals. They thought that packed meals are foods prepared for specific groups of people such as surveyors, tourists, and children. For example, one candidate wrote, packed meals are the meals which contain snack, fruit and so on which are to be used by tourists. Another one wrote, packed meals are the foods which are prepared in the family for patients and young children, example soft foods and others.

In part (b) (i), some candidates failed to identify the equipment used for packing meals. Some of them mentioned the characteristics of packing materials/equipment; others provided the examples of packed foods which include, *cakes, pastry, fruit juices, buns, salads, fried meat, chips* and *fruits*. However, some candidates failed to score any marks in part (b) (ii) as they provided incorrect in part (b) (i). Other candidates mentioned incorrect examples of packed foods to the correct equipment provided in part (b) (i). For example, one candidate wrote, *chips in hot pots* and *juice in metal containers*. This candidate failed to understand that when chips are packed in hot pots they become soggy, while fresh juice packed in metal containers may lose some of its vitamin C.

In part (c), some candidates provided the kitchen hygienic rules to be followed when preparing and cooking foods in order to prevent contamination, instead of providing points to consider when planning and packing the meals. The incorrect rules mentioned by these candidates

included: consider to prepare food in a clean kitchen, prepare and serve food in clean utensils, washing the fruit and vegetables by using clean water before preparation and consider the personal hygiene when cooking. Others mentioned the points to consider when planning for family meals instead of the points to consider when planning and packing the meals. For example, one candidate wrote, consider the season of the year for availability of many foods, consider what individual like, time available for preparing the meal and money you have to buy food. A response from a script of a candidate with poor performance is provided in Extract 5.2.

#### Extract 5.2

3	(a) puched meuls on these find which can be prepared and serve in a bay or box	
	(b) (1) (i) shurt crust pastry.	
	(b) (i) (i) short crust pastry is ruch burns iii cate short packed meal ny externs packed meal	
	my extens pacted neal	
	(ii) (i) Juice	
	(c) (1) put all equipment in a cert space (ii) They found should be reheated donot re un	
	(ii) They found should be reheated donot rew	
	(iii) They should be purt in a beign bux (w) consider sensors of the year and amount of water before cooking.	
	(W) consider senson of the year and amount	
	of water before civiling.	
	3	

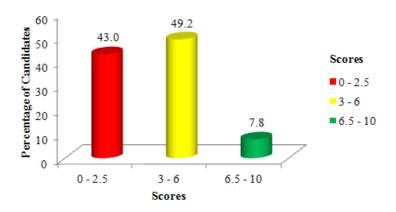
In Extract 5.2, the candidate failed to give a correct definition of packed meals. He/she also failed to understand the demands of parts (b) and (c) of the question, hence provided irrelevant responses.

## 2.2.4 Question 6: Cleaning Agents

This question required the candidates to differentiate cleaning agents from detergents in part (a), while in part (b), the candidates were required to describe four types of soaps. Part (c) required the candidates to list five characteristics of a good laundry soap.

The question was attempted by 2,182 (98.8%) candidates, while 27 (1.2%) candidates did not attempt it. The analysis indicates that 170 (7.8%) candidates scored from 6.5 to 10 marks, 1,073 (49.2%) scored from 3 to 6 marks and 939 (43.0%) candidates scored from 0 to 2.5 marks. The general

performance for this question was average because 1,243 (57.0%) candidates scored 3 marks and above. Figure 6 summarizes this performance.



**Figure 6:** The percentages of candidates' performance in question 6

The candidates' response analysis indicates that most candidates who scored average and above had adequate knowledge on cleaning agents, particularly detergents and soaps. The candidates managed to differentiate cleaning agents from detergents in part (a). For example, one candidate wrote, cleaning agents are substances used for cleaning purpose in various surfaces such as disinfectants like vim for toilet and ashes, while detergents are examples of cleaning agents which are chemical substances such as powdered soap used in cleaning process for the purpose of making dirty and stain loose for easy cleaning.

In part (b), a good number of candidates managed to provide the correct types of soaps. Some of these candidates mentioned the types of soaps without any descriptions. Others provided unclear descriptions to some of the mentioned soaps. A few candidates treated hard soaps and neutral soaps as two different soaps, while in actual sense they fall under one type.

In part (c), the candidates were able to provide correct characteristics of good laundry soap. Others included one or two incorrect characteristics, hence failed to score all the 5 marks allocated for this part. The incorrect characteristics mentioned by these candidates included: *is soluble in water, it should not cause irritation, it should not bleach the clothes, it should be hard and durable* and *should provide good smell which make the cloth* 

*smell well.* Extract 6.1 is a sample response from a script of one of the candidates who performed well in this question.

## Extract 6.1

06 a	cleaning agents	Detergents
	Are these unbitance which	
	act act as a vource of cle-	
	arless.	ove dirty.
	Europe de la contra contra	
	Examples of cleaning agents	a or o goods.
	are Abrasive, twoons	a maganapa.
66.	_	
	· Powdered roop-This is th	e type of roap which
	presient to a pounder con	m. This when it aret
	vented in water dividive leather which wed as a	quickly and form
	leather which wed as a	a detergents.
	· Canadama lu +ta +	20 24 (202) (2)
-	· Liquid voop - ly the ty	of domb mount in tool
	nd in liquid form ma	and were to theman
	O .V	
	· Bar upap - luthe type of	voap which is on vowa
	form this wap can be use	ed in occaning arenous
	or in bathing.	
	Landa was This are	and a which wood in
-	· Laudry voap. This are	har
	whing and cleaning of clot	1)6],
6C.		
00	. It must produce leather	ore the areas and a
	4	•
	. It must be the one which;	toes the blacking
	of the akin.	Cocces care December
	. Is the one which does n	nt course diseases (12)
	ke alegy.	Les Carrie Carrocas es a
	· It the one which when	Kept in durty places
	remove dirty easily with	out even wing Aleget
	hing anent ruch as Jik.	3.5
	333	

Extract 6.1 shows the answers from the candidate who was able to provide correct responses in parts (a) and (b). In part (c) of the question, the candidate provided one incorrect characteristic of good laundry soap, hence failed to score full marks.

The analysis further indicates that some candidates who performed poorly in this question had inadequate knowledge on cleaning agents. In part (a), the majority of candidates failed to give the difference between cleaning agents and detergents. For example, one candidate wrote, *cleaning agents are chemicals used to clean a place from dirty while detergents are harmful chemicals which used to kill bacteria and germ from the clothing*. Another candidate wrote, *cleaning agents are agents that used in cleaning clothes while detergents are types of cleaning agents that used for washing*. These candidates failed to understand that cleaning agents are substances which are used to remove dirtiness on various surfaces, while detergents are one of the cleaning agents which are used with water to loosen dirtiness and make the cleaning easy.

The majority of candidates failed to understand the demands of part (b) of this question. Some of them mentioned the common soaps used in our society. The mentioned soaps include, *omo*, *kiboko*, *mbuni*, *rungu*, *family*, *jamaa* and *foma*. Other candidates failed to correctly read the given term so they responded on 'soups' instead of 'soaps'. For example, one candidate wrote, *potato soup*, *mixed vegetables soup*, *stalk soup* and *chicken soups*. A few candidates managed to list few correct types of soaps but did not provide any description, hence scored low marks in this parts.

However, in part (c) some candidates provided a variety of irrelevant responses due to lack of knowledge on soaps. They mentioned irrelevant characteristics of good laundry soap such as: they must have pleasant smell, must kill bacteria and germs, must be available all over the time, must have good attractive colours, should be able to remove stains, must be durable, must be cheap and easily used, and must have label which shows the expiring date and date of manufacture. Other candidates provided the characteristics of good soup instead of those of good soap due to misconceptions of the demands of parts (b) and (c) of the question.

#### Extract 6.2

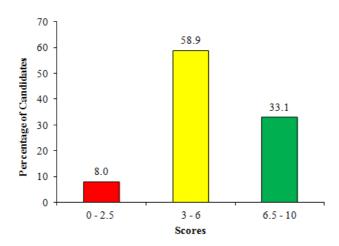
64 lleaning agents is the process which they Clean	
Clothes at the loundry	
bi Blue	
ii Blunllung	
iii: Joup agent iv: Difecant	
ir Difeccent	
co a good latenday foup should be remove dity	
is good luindry jour should be Mule Wollers Somet	
i good latendry soup Should be remove Lity is good laundry soup should be remove state conjunt and	
Ιπυταπία	
v. good laundry sour should be kill germ and butoring v. good laundry sour should be prived fresh our	
The state of the s	

Extract 6.2 shows incorrect responses provided by one of the candidates who had inadequate knowledge on cleaning agents.

## 2.2.5 Question 7: Vegetables and Fruits

In this question, the candidates were required to outline four uses of vegetable salads in a meal in part (a), and to write three nutritive values of vegetable salads in part (b). The candidates were required to briefly explain how to prepare raw tomatoes for salads in part (c) (i) and raw lettuce for salads in part (c) (ii).

The question was attempted by 2,195 (99.4%) candidates. Data analysis shows that the candidates' performance in this question was good since 2019 (92.0%) candidates scored 3 marks and above. It was observed that 727 (33.1%) candidates scored 6.5 to 9.5 marks, 1,292 (58.9%) scored from 3 to 6 marks and 176 (8.0%) scored from 0 to 2.5 marks, as illustrated in Figure 7.



**Figure 7:** *The percentages of candidates' performance in question 7* 

The analysis of responses indicates that the candidates who performed well had adequate knowledge and practical skills on vegetables, particularly on vegetable salads. In part (a), the candidates were aware that in a meal vegetable salad is used to add flavour and texture, to be taken as snacks, to garnish dishes and make them more attractive, used as fillings in some foods, to add nutrients in the meal like minerals and vitamins, to accompany the main dish and to be taken as starter to the main dish. In part (b), the candidates were able to give the nutrients which are found in vegetable salads which include water, protein, fats, and some minerals and vitamins. The candidates also managed to correctly explain the procedures of preparing raw tomatoes and raw lettuce for making vegetable salads. Extract 7.1 is a sample responses from a script of a candidate who scored high marks.

#### Extract 7.1

7. as use as readable salad	
7. as there of regelable salad - For providing vitancis & in the meal.	
- To odd varioty or rood in a meal	
- 10 add variety of clavour and texture in a meal	
neal so go to arise appetite	
meal so as to arise aspetite.	
by in they contain ntamin C	
is They contain minerals such as Iron	
in They contain minerals such as Iron in They contain large percent or motter	
in them	

7 cris Tornatoes	
-Wach them thoroughly with running	
$\frac{1}{1}$	
- Remove any foreign visible spot on the	
surface by a knife	
- Keimove the toe cras which it was attached	
to the plant by a tentre - chop de required and mix with other regetables.	
- Choe de required and mix with other	
registables, 2	
iix Lettuce	
- Clean thoroughly through running water which is cold.	
which is oold.	
- Cut out the top most part which is	
not needed	
- Chop as required, add vinegor and	
mix with other regetable	
OR - Arrange them wholet an a	
plate and vinegar and put other mixed regetables on top	
mixed regelables on top	

In Extract 7.1, the candidate managed to answer correctly part (a), (b) and (c) showing that he/she had sufficient knowledge on vegetable salads.

On the other hand, the candidates who scored below average revealed to have not understood the demands of some parts of this question. Low proficiency in English Language might have also contributed to poor performance because some candidates provided meaningless responses. In part (a), some of these candidates provided functions of foods in the body. Others mentioned types of foods which are served with vegetable salads. For example, one candidate wrote, *roasted meat, a fried food, meat pilau* and *chips*.

In part (b), some candidates provided the functions of specific nutrients found in vegetables in the body instead of the nutritive values of vegetable salads. The mentioned points included: *in digestion because of roughage, to protect the body from diseases, produce red blood cells in the body, to treat anaemia,* and *give the body vitamin C.* Others mentioned parts of plants that are used to make vegetable salads. A few candidates mentioned

types of vegetables which are commonly used to make salads such as, cabbage, carrots, onions, tomatoes and cucumber.

Some candidates who lacked knowledge on vegetables provided irrelevant responses in part (c) of this question. Others did not respond to this part. The candidates who showed inability in using English Language wrote ambiguous explanations on how to prepare raw tomatoes and lettuce for salads. Responses from a script of a candidate with poor performance is provided in Extract 7.2.

Extract 7.2

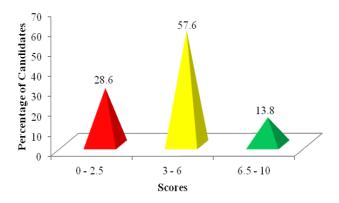
768	Hed to provide the body vitamins
(1	flied to against disease
1(1	Used to build the body
10	ilced to stemulate the body
h?	Duots
	Leave a
	The body
_ <b>८</b> ଡ	Tomatos  there are vegetable and there are tomato there are chilid is the
	bomato those are child of the User A are the tomatives
11	Lettuco
	there are salad are the vota
	min

In Extract 7.2, the candidate failed to respond correctly in any part of the question. He/she provided unclear responses in part (c) because of poor mastery of English Language.

## 2.2.6 Question 8: Kitchen and Food Hygiene

The candidates were required to differentiate food poisoning from food spoilage in part (a), while in part (b), they were required to briefly explain four means by which bacteria can be transferred to food. Part (c) required the candidates to state four kitchen hygiene rules to be followed in order to maintain food hygiene.

This question was attempted by 2,171 (98.3%) candidates. Data analysis indicates that 299 (13.8%) candidates scored from 6.5 to 10 marks. The candidates who scored from 3 to 6 marks were 1,252 (57.6%) whereas 620 (28.6%) scored from 0 to 2.5 marks. The performance for this question was good because 1,551 (71.4%) candidates obtained average marks and above. The performance for this question is summarized in Figure 8.



**Figure 8:** The percentages of candidates' performance in question 8

The responses analysis reveal that the majority of candidates who performed well in this question managed to differentiate food poisoning from food spoilage in part (a). They understood that food poisoning is an illness caused by intake of contaminated food, while food spoilage is deterioration of food which makes it not safe for human consumption. In part (b), most candidates explained the correct means by which bacteria can be transferred to food. However, some candidates mixed correct and incorrect kitchen hygiene rules to be followed in order to maintain food hygiene, hence failed to score full marks in part (c) of this question. Some of the incorrect rules provided by the candidates were: *bacteria may be present in food, the working table not well covered so provide a good environment for bacteria, when cooked foods are kept for long time* and if

drinking unboiled water. Responses from a script of one of the candidates with good performance is provided in Extract 8.1

## Extract 8.1

tar food poisoning -> I the crickness which is caused by eating food which is contaminated
white  Food spoilage - I the process the or reachen where  by ford is not safe for human the  food becomes contamnated by bacteria  or any other agent of took spoilage
(b)inThrough posts to Bacteria (an be transfered through posts which carry bacteria example Those flies. Flies may carry bacteria and transmitt them into the food:
(ii) Through contaminated water; (ortaminated word may transer bacteria to the food and this is when the contaminated water is used in cooking or even in washing food ingredients which are used in prefaring food.  (iii) Through leaving food without overing - once food is cooked it drould be covered but once it is not one ted bacteria may enter and contaminate it  (iv) Through the use of dist up utensils when cooking - pall utensils bused in cooking should be well cleaned and this will prevent contamination but once the cooking oftensils are not clean sacteria will contaminate
(c) (i) Washing hands before starting preparing the
(ii) All areas In the Kitchen which are used For preparing food should be well cleaned and cooked food should be kept in proper place and not left uncovered
(iv) After preparing road utensile should be well done ned and arranged well and every Utensile whould be Kept in a proper place.

Extract 8.1 shows a sample of correct responses from the candidate who scored high marks.

The candidates who scored below average in this question provided irrelevant responses due to either lack of knowledge on kitchen and food hygiene or misconception of the demands of some parts of the question. In part (a), the candidates failed to differentiate food poisoning from food spoilage. For example, one candidate wrote, *food poisoning is the types of food containing poison, while food spoilage is the type of food containing harmful microorganisms*. Another one wrote, *food poisoning is the process whereby the bacteria have entered in the food while food spoilage is a process whereby food is attached by microorganisms*. Others differentiated the terms by mentioning the foods which can easily be poisoned and spoiled.

In part (b), the candidates failed to demonstrate their understanding on how bacteria can be transferred to food, as a result they provided unrelated responses. Some candidates mentioned the organisms which cause diseases. For example, one candidate wrote, *anopheles mosquito*, *worms*, *cholera bacteria* and *fungus*. Others mentioned the diseases which are caused by bacteria like: *cholera*, *typhoid*, *diarrhoea*, *TB*, *syphilis* and *gonorrhoea*.

In part (c), some candidates explained the ways of preventing accidents in the kitchen. For example, one candidate provided the following points: handle hot foods carefully with kitchen cloth, when the floor in the kitchen is wet one must rub it in order to prevent accident like falling, make sure you arrange well the kitchen equipments and close all windows and door to prevent insects. Those who had insufficient knowledge on kitchen and food hygiene provided irrelevant rules using poor English Language grammar. Extract 8.2 displays a sample of candidates' incorrect responses.

Extract 8.2

0,8	aj	Food Poinnou Food Soulage	
		cereal milk	
		Vegetables arent	
	62	is Due to Food get and spoilage	
	i	ij Due to Food reasted and good smell	
		us when a Food putting down without	
		care	

sun be fransfered to food
S'is To keep food on a good place
II To Store food on a dry place
111 To avoid teep a food in a moist area
tood spoilage very fulter

Extract 8.2 reveals a sample of responses from the candidate who had insufficient knowledge on kitchen and food hygiene. The candidate provided responses which does not relate to the demands of either part of the question.

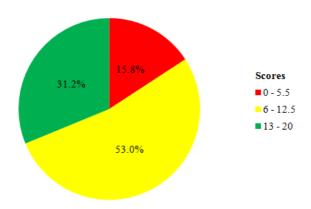
## 2.3 Section C: Essay Questions

This section consisted of three essay questions composed from the topics of *Malnutrition, Feeding the Baby* and *Early Marriage*. Each question carried 20 marks. Candidates were required to answer only one question.

### 2.3.1 Question 9: Malnutrition

In this question, the candidates were required to support the statement; "Obesity is one of the nutritional disorders that can lead to the occurrence of other diseases" by explaining three causes of obesity in part (a), three diseases associated with obesity in part (b), and three measures to be taken in order to prevent obesity in part (c).

This question was opted by 455 (20.6%) candidates. This means 1,754 (79.4%) candidates did not go for it. The analysis of performance shows that 142 (31.2%) candidates scored from 13 to 18.5 marks and 241 (53.0%) scored from 6 to 12.5 marks. Those who scored from 0 to 5.5 marks out of 20 were 72 (15.8%). This suggests that the candidates' performance in this question was good because 383 (84.2%) scored from 6 to 18.5 marks, as Figure 9 illustrates.



**Figure 9:** The percentages of candidates' performance in question 9

The candidates who scored average and beyond in this question were able to give correct causes of obesity and the diseases associated with it. Such diseases are: heart disease, high blood pressure, diabetes and stroke. The candidates were also able to give the practical measures to prevent obesity which included: by doing physical exercises, reduce consumption foods rich in energy and eating balanced diets. This implies that the candidates had adequate knowledge on the tested concepts which are taught under the topic of Malnutrition. They also showed mastery of good essay writing skills. Extract 9.1 is a sample of a response from a script of a candidate with good performance.

### Extract 9.1

a	Obesity & the nutritional disorder caused by too much
	intake of invest dishes, oil and fatty in high amount exam
	ple of Tweet dishes bakes, bigaints, fally goods include
	meat which are fried or roasted, thips and taking of
	Garbonate dronks such soda, and beers. Obesity can also
	be inherited from one person to another.
	The Causes of obesity are has follow;
	Pour feeding method, I an ait were a person is not able
	to seed on bahance diet. Many sende herome obesity
	because have poor method eating and they don't velocit
	The good to eat maily of them seed on fathy good, June
	t good and drinks which lostain alcohol and Carbonate
	lunce they become fat and not easy to hardle their bodi
	eu again.
	U,

	1 1 1 6 1 11 1 4 1
	Lack of body exercises, Is the vituation when a
() P	erson's body is just resting who without making it more
0	Lack of body exercises, Is the vituation when a errors body is just resting who without making it more votive by running, walking or playing just ball or other ports games. Hence you journed a person sleeping every time with no ich to some more the body has me
U	porty games. Hence you cound a person beging every
/	time with no job to carry on hence the body become
	Lazy and tat.
	Inheritance & the landition when the sene or she
(1	ity are onwed com eather or nother to the babil.
	the county has the history or people who are obsity
1	the family has the history of people who are obsity is kid you are likely to obtain or inherity from your relative hence a person is bine fatty from her
l u	colatus have a come I know catte com her
19	celative.
	Direases associated with obesity are has follow;
	Blood Prewure, most it is high blood pressure
	the vituation where the heart & forceful to produce
	blood in high pressure and also because the person body
	has alut of fat some tend to block the blood streams
1	ressels hence the blood passed with high pressure.
	Diabetes Mellitus, Is caused when insulingalls
$\int \int dt$	o control amount of sugar in the body's blood. It divide
i	in two type TYPE I and TYPE II diabete Millitus. When
	r person becames objectly the level of rugur in the
1	ody rise hence he /she is likely to be patient of
c	liab etes .
	Heart Failure, Is the Condition when the heart
	is not working properly or function well. When a person becomes more obesity he she get heart disenses because
	becomes more obesity he she get heart diseases because
	The back exercise and fairly accumulated at back strains
/	makes difficult for the blood to be many factured and
	fransported easily hence a person's heart becomes
	Veak' and time when it fails use of more enemy
I I	to nin he activity
-	of order to prevent Obesity we have to do the
- F	opowing;
	Regular body activities / exercise, In order For
	a parson to escape from oberety he like has to do requ
	har body exercise very day and avoid over sleeping and
	esting too much instead to she carry on the body
	exercise to reduce the fatty accumulated in the body.  Proper reeding method and time table; has we
	have seen that a person must have proper reeding
'	time table and not every time that he she has to feed
,	to exentlying instead in time table and not too much
	up everything unstead in fine table and not too much
	VIIIVADO VIIIVADO VIII WOOD WORLD)

Avoid to much sweet, fat and Junk food e.a chips.
you are recomanded that you shouldn't take every day
too much (weet, fat and Junk food inorder to keep
your body at right vize and shape because sweet and
fat foods makes a person obesity.
Obesity can be controlled It one eat according
to the time table, carry on body exercise and avoid
eating junk food, oberity can lead to strock, pressure
and diabetes If not controlled.

Extract 9.1 shows the responses from the candidate who managed to explain the causes of obesity, diseases associated with obesity and measures to prevent obesity, thus scored high marks.

On the other hand, the analysis shows that the majority of candidates who scored low marks misunderstood the demands of the question, thus, provided irrelevant responses. These candidates considered obesity as undernutritional disorder instead of overrnutritional disorder. They provided causes of undernutrition, therefore, the examples undernutritional deficiency disorders such as marasmus, anaemia, pellagra, kwashiorkor and scurvy, and measures to prevent undernutrition in parts (a), (b) and (c) of the question respectively. The candidates who scored from 1 to 5.5 marks (11.6%) managed to provide at least one correct point in each part, but failed to give correct explanations. For example, one candidate mentioned by including small portions of fat and starch in your meals as a measure to prevent obesity but wrongly stated that, one should eat much proteins, vitamins C, minerals and water and avoid sugar, starch and fat foods because do not make balanced meals. Extract 9.2 shows a sample of a response from a candidate who scored low marks in this question.

# Extract 9.2

q	ml -1, XX II to the same of the
1	Obesity Menution are The increase prode
	Crease of nutrient in the body. This coused ma thay deserted like Obesity, marsums, Richet and hu
	ashiotor.
	Obesity is the increase of nutrients in
	Placy body especual conbohadrate This can consed a
	perso to have obesity. They following are they con
	THE PO COESIFY.
	poverty is they situation of they person a
	a not afford house never luch as bood. Shettera
	no clothers due to this point they person can ge to oberity due to was not having enough food to
	t obesity due to was not having enough food to
	I by tood so they can eat one diet every day
	this couse a person to be have obesity
	Ingnorance due to this point they propte
	can not get obesity become of ingresance They did
	not now the arrengement of book
	poor diet due to this point They people con
	not now the arrengement of incorporance they did  not now the arrengement of book  poor diet due to this point they people can  not eat balance diet so this can coosed to be
	having the obesity or orther diseast like murasm
	hwashioher and right.
	lack of education due to this point Flor
	many people, have mulnulrition become at poor educ
	many people have mulnutrition because at poor education they did not now how can arrenged the food
	property and culting balanced be diet and the im
	portunce, of balanced diet.
	They following are they distast associated
	with obesity
	Richet is the luck of Vitamin Din
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	ter Richet -

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The body.	
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nder to prevent Obesity.  provision of education this is among of measure used in to be taken to prevent obtait y that to the provision of education among y people can know importance of balanced lie	
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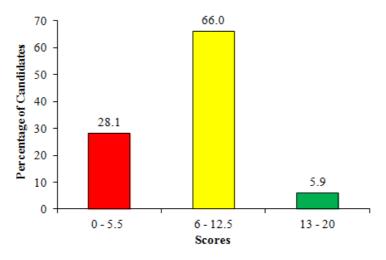
In Extract 9.2, the candidate performed poorly in this question because he/she responded contrary to its demand.

# 2.3.2 Question 10: Feeding the Baby

This question required the candidates to explain four advantages of weaning and six rules to be observed during weaning.

The analysis indicates that this question was chosen by very few, 388 (17.6%) candidates of which 23 (5.9%) scored from 13 to 15.5 marks and

256 (66.0%) scored from 6 to 12.5 marks. The candidates who scored from 0 to 5.5 marks out of 20 were 109 (28.1%). No candidates who scored above 15.5 marks. Generally, the performance for this question was good since 279 (71.9%) candidates scored from average and above. Figure 10 is an illustration of the performance.



**Figure 10:** The percentages of candidates' performance in question 10

The response analysis indicates that the candidates who performed well in this question had adequate knowledge on weaning. They might have also adequate practical experience gained from their families since weaning is done at the family level. This enabled them to correctly give the advantages of weaning which were: mothers get enough time to rest, weaning food supplements the nutritional needs of a growing child and it provides support to the child's health during sudden illness. The candidates were also able to give the rules to be observed when weaning. For example, one candidate wrote the following rules: introduce new food early in the morning as this will help to observe any reaction which may develop due to eating new food, do not force the child to eat, introduce small amount of food at first and then you increase the amount gradually, the weaning food should be soft and nutritious, weaning foods must be changed for the baby to be familiar to different foods and breast milk or artificial milk feeding should be given to the child after feeding him. However, the majority of candidates scored average marks because they either failed to provide the required number of correct points or provided insufficient explanations to some of the mentioned points. Extract 10.1 shows a sample of correct responses from one of the candidates with good performance.

# Extract 10.1

10. Wearing is the gradual introduction of solid
Food other than mothers milk in order to suppliment
the mother milk eg: gradual wearing about wearing and
natural bearing.
The totowing are some of the advartages of
Wearing the boby:
To suppliment the mothers mill, as we are
aware that bearing is the gradual Introduction of new
solid Food rather than makers will thous in doing
so we are able to suppliment mothers milk.
To provide the child with an experience early of solid
Food, Wearing practice normally is clone by the people
of Urban areas provide one one Thay buy them some frites
and other smooth Food So as they can make the dild to
have an experience to solid Food.
Wearing does not Folighte the mother, Always
bread spedien is supported to be done every fine as the
body become hupaper thus the mother is tectsque but
When you have introduced Other solid Food tather
than mother's milk the matter can not severely
Faliqued
It gives a chance to the mother to go to har
Work place even it it is far, bearing the tody can
enable the mathems to travel Far away to her work
place and allowing theast geeding either once or twice
per ctay egi-gradual beaning.
The Following are the roles to be Observed When
during Wearing!
Introduce a little Food and See the result, The Food
of the dild must be of small amount so as to see  the result if he/she can eat the good or refuse to
the result if he she can eat the food or refuse to
eat that Food.

10 The Food must be atteast in pulp form, the form
of Food should be in pulp Food in order to be easily
directed as his/hor directive organs are steel soft
ntroduce a new Food at a time Defore 10: mm
so as to observe the reactions taking place, Another
Food must be introduced before lo: Am so as to
Observe any reaction which might take place on the
day time.
Do not use Force, when bearing the baly
you are supposed to be calm a lot as the child
dild can agree to eat on the next days, when
you force the bally he she can hate u and refuse that
70 cd.
Give the tody gruit juice and water between the
meal, the body is supposed to be provided water and fruit juice if possible between the meal.
Fruit julie if possible between the medi-
Breasteed or bottle feed the boby after
every neal, the mother must feed the body either
to accomplish his her diet and provide relationship between
to accomplish higher till and provide kutimonip someen
her mother and the child.
In general, wearing the body can not
can be due to Unuillingness tersons such as death
of the mother can lead to wearing of the body.
To the market call and to rectifing a feet total

Extract 10.1 shows the responses from the candidate who scored good marks. The candidate failed to score full marks because he/she provided two out of four correct advantages weaning required.

Candidates who scored below average provided irrelevant responses due to inadequate knowledge on the concept of feeding the baby particularly on weaning practice. Some candidates provided the functions of food in the body instead of the advantages of weaning. For example, one candidate wrongly explained how to give the body energy, to produce body cells, for growth, for the body repair and to give good body health are facilitated by weaning foods. Moreover, other candidates thought that, to develop the child's ability to understand the world, to increase more weight, to change the living environment, help the baby stop breastfeeding and mother get chance to find another child are some of the advantages of weaning, which is not true. A few candidates managed to mention at least one correct rule to be observed during weaning, hence scored from 1 to 5.5 marks. Some

candidates in this category mentioned a variety of incorrect weaning rules due to insufficient knowledge on the concept of weaning. Others provided hygienic rules to follow when preparing and cooking food. The hygienic rules provided by these candidate included: clean equipment and utensils thoroughly, remove deteriorated food from the kitchen to prevent it from contaminating other foods, nails should be cut short, use safe water for washing and cooking foods, hands, utensils and equipment, do not leave cooked foods to stay for a long time in the kitchen, protect foods and water from insects and other animals to prevent contamination, do not mix raw and cooked foods and a sick person is not allowed to prepare and cook food. Extract 10.2 shows an example of irrelevant responses provided by one of the candidates.

#### Extract 10.2

10. Weaning: Is the time when a mother stops breast
feeding her baby being ansidering that the child is
able to cope, up with the environment is in The
following are the advantages of weaning.
Weaning gives a child burgge to be used of
the environment that is in This hope more, wince
the shild is being left with four sixters who will
male her to phy alone, and be used with the
environment. I'les this helps a baby to determine
bekrelf himself and to know some works from
her sixtems or brothers
Wooning gives a chance to the child to
porticipate in different games. Through perticipation
I'm discorpad games (the is able to absorption her)
loody. This makes a child to enjoy staying with
other children more than staying at home
depending on her mother.
Weaning helps a child to learn rome
tabits from the unvironment is in the ho gets
are bad. Since she is being expand much to, the
are bad. Since she is being exposed much to the
environment that will helps him ther to digregentiate
but only advantages of wearing but there do rules
to be observed during wearing.
The wearing good should be provided before the meal. This enables a child to cool down her thin
The mean pile endores a chila to see down her man

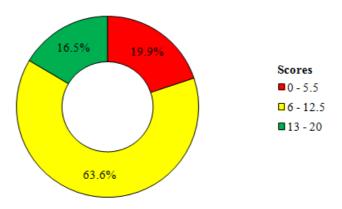
10. hunger, since the main meal is to be corred at	
around Diocom or above. Coincider for the	
child be not to cool bypage her and chould be provide	
the time before the main meal.	
I beging took (chould be close and (more thing	
encourages the hygiene of the child cince (the the needs clean utencils that will provent hortholo body from being a groated by the diseases.  Weaning foods should be in liquid porm This is whereby a baby is being still has notyet grown tooth. So once is given solid pood(s can not be	$\neg$
oracle along uterrails that will assent bother body	$\neg$
come being a sected by the disease	
le saning and stand by the light of the	$\neg$
is shoot a haby is hold will be a power ormer	$\neg$
soll so and a story of the sould so not so	$\dashv$
olla la la control de distribute de la control de	
able to chow. Co inorder to avoid this the good to	
be given should be in liquid from which includes	$\neg$
mached barmans, pomidge, tea (unilk).	
wearing gends schould be balanced cince a growing child needs balanced meals for the well	
arowing chilo herace adjanced theurs for the well	-
growth of the body, so when preparing two for	
growth of the body, so when preparing food for wearing proteins, vitamins and carbohydrates what be considered for the child.	
the considered for the childs	$\dashv$
Wearing produce whould not be too cold or too	$\dashv$
Weaning produc whould not be too cold or too hot. This is whereby bold produc is not good for the child since it contains some bacteria which needs	
it the it contains some bacteria which needs	$\dashv$
to be destroyed through warming also hot poods	
are not good totally for the child, since they can	$\dashv$
lead to the burning of the mouth part of the build	$\dashv$
Wearing foods thould not contain too much apar and walt. Since the two creavonings are	
agar and balt. Since the two creationings are	$\dashv$
chemicals in nature. So they can lead to pour	-
growth of the child also can lead to concer	
once the child is making charge. Also Eggin, stoods	$\dashv$
makes the teeth not to grow well. Since they	
Idestrayou them.	

In Extract 10.2, the candidate provided incorrect responses on the advantages of weaning and rules to be observed during weaning because of insufficient knowledge.

## 2.3.3 Question 11: The Early Marriage

In this question, the candidates were required to explain in detail six social cultural factors that encourage early marriage, and three reproductive health problems which are associated with early marriage.

This question was chosen by 1,358 (61.5%) candidates. This means 851 (38.5%) candidates did not attempt this question. The question had good performance because 1,088 (80.1%) candidates scored 6 marks and above out of 20. The analysis indicates that 224 (16.5%) candidates scored from 13 to 19 marks, while 864 (63.6%) scored from 6 to 12.5 marks. The candidates who scored from 0 to 5.5 marks were 270 (19.9%) and no one scored full marks. Figure 11 illustrates this performance.



**Figure 11:** The percentages of candidates' performance in question 11

The analysis of responses indicate that many candidates who scored average and above in this question had adequate knowledge and experience of early marriage practices through media and from the community. The good performance could also be contributed by this topic being taught in Civics subject. The candidates were able to correctly explain the sociocultural factors that encourage early marriage such as, poverty, customary laws, peer pressure, to get respect in the community, early pregnancy, family pressure, irresponsible sexual behaviours among adolescents, to secure courtship and ignorance. The candidates were also able to analyze the reproductive problems associated with early marriage which included: complications during delivery such as anaemia and toxaemia, low birth weight, premature birth, stillbirth and fistula which is due to prolonged

*labour*. However, some candidates could not score higher because they failed to provide the required number of correct points in all parts of the question. Extract 11.1 shows a response from a script of a candidate with good performance.

### Extract 11.1

11	Early marriage in the marriage which take place when a partner is	
	which take place whom a partner is	
	not woll mature physically, montally	
	not woll mature physically, mentally socially and pronominally. It take at	
2000000 00000	land tollow 18 more lland are contall	
	authorn teather many announced	
	carly marriago. These are as follows;  Povorty: In Jomo tamilies they want their child to be married to that they are get money through the	
	Povorty: In Jomo tamilias thay	
	want their child to be married to	
	that They can get money through the	
	brido prico gioon. This is also to possity	
	bride price groon. This is due to possity that they allow their child to get man	
	customary law Some customs make the training to deade that their child has to marry In vome of	
	Customary law Como customs	
ļ	make the tamily to decide that their	
-	child has to marry. In vomo of	
	the custom then say that a chi- le of 16 years how to get married Le due to custom it enforce a and child to get mairried edier	
	ld of la your how to got married	
	Lo duo to custom it enforce a	
	aul obild 10 got mairried edier	
	Moor praesure into to the	
	Poor praesure. The re due to the company that a child has kilher all he or her triend has mairly they got	
	MU of not friend nach mairry may got	
	also influence from their triench hence	
	marry at young utago.	
	the all la distance in a affect many	
	tarty preamoce. This affect mostly the child as the parent will force the girl to be married by the	
	man tolen those loans a strict to	- 20.12
	man who they have a child to another so as to remove whome	
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Janpranco ine parent they lack	
knowledge of the offert of the earl	
In marriago Togother weth their child	
Lanpranco. The parent they lack knowledge of the entry the early marriage teacher with their child thence they continue practicing early	
1 \(\lambda \text{W(V)} \tau \(\lambda \text{(Ad)}\).	
Cocurty I omo people soo that when they marry they well have socurd	
whom thou marry they well have gorned	
ly expandly gill child against unwant	
ed promonial home their parent let	
thom married at vound ago.	
y expocially girl child against unwant ed pregnancial honor their parent let them marricel at young ago.  There are reproductive houlth	
problem reculting from pada margano.	
problem reculting from early marriage. Those are as follows:	
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ntulo curtam are also up to legione	
ault is the malfor to remain the	$\dashv$
Complication during delivery since  the mother is very young the reproductive systems are also young home difficult for the mother to remove the  baby during elelivery  Many child cit short interval.	
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linco the mother lack a knowledge a	
and family planning the coll get	
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many children at whort time  The mother may got diseases  accorated with the reproductive syst	
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of using unrousious. Thre regult due	
to problems when delivering and god	
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be odderefeel about The effect	
of early manyage and clareourage	
the automs which influence it	
Extract 11.1 shows a sample of responses from the condidate who was a	1 1

Extract 11.1 shows a sample of responses from the candidate who was able to provide correct social-cultural factors that encourage early marriage. He/she also provided correct reproductive health problems which are associated with early marriage. The candidate however showed mastery of good essay writing skills.

It was observed that, 270 (19.9%) candidates performed poorly in this question due to inadequate knowledge on the topic of early marriage. They provided a variety of irrelevant responses which do not relate to the demands of all parts of the question. Some candidates provided irrelevant socio-cultural factors that encourage early marriage such as, female circumcision. wife inheritance, bride price to woman. discrimination, genital female mutilation, regarding women as sex object, and *polygamous marriage*. The candidates also gave irrelevant reproductive health problems which are associated with early marriage. For example one candidate wrote; spread of diseases such as syphilis, gonorrhoea and HIV/AIDS, high blood pressure and health problems due to ignorance and poverty. Another candidate wrote, marriage separation, bad health and child labour. Other candidates in this category provided few correct points with meaningless explanations, hence scored low marks. A response from a script of a candidate with weak performance is provided in Extract 11.2.

Extract 11.2

11 Social-cultural parter are those factor That
there practice in our communities, theo social
cultural practice good about bad sotte boad
social cultural tactor are those cultural which are
not acceptable in the country or commudity. The
pollowing are the social cultival tactor that
encourage early marriage in the raisely
Female garital multilation, this it practice
In the community and there society there practise
this tomale gental moltilation and This can
can cause dothern offset during delivery so
people should be educated porthis problem
polligamy. This it cane be tactor that
encourage early manage because there same
people there marin rive; and he did not
street children it can cause disease and man
street children it can cause disease and man
problems so the people should marry one wife

tull marriage. There some people there for	ioe.
there child to get mariness which while these	2
Children are skil Nounc to these act marriage	
in small age and those get preapaging That	,
there child to get maining which while their children are shill young to these get mannage in small age and there get pregenary that can cause problem during birth of child soft factor can encourage early marriage.  Wife inheritance, this aft it is be tad	â
Luctur (on encourage party marriage)	
Wife inhentance this aft it can be too	<b>\</b> ~
that encourage early marriage because their	
Jame tribles which there haven rule traditions	Ĭ.
beliefs and there prinches so that can come	0
and to be perfor that encourage early mani-	0.00
In south and commidity.	27
Early Marriago, this ign be there som	0
tarty Marriage this in be there in terming there get their child to get married	10
anguage the marriage still their points	
engage the marigae still their name to	
this can be faither that encourage country	
mariage in our societ and healthy.	
Food tabous thongs some libes there to	
Disangua that does not east had which have	e
high Equality like chicken tish high eag	
While this god there have protein that	
project nother and her children to gest	,
and he let so the course That some	20
early marriage in their health of people	
early marriage in their health of Deople Therebye there people they should know there health inorder to know that There sick or There health is good and do get at pract that encourage ealy marriage to the health.	
There health inorder by know that There sick	
or There health is good and do get at prart	gn
that prioring ealy marriage to the health.	

In Extract 11.2, shows the answers from the candidate who provided incorrect response because of lack of knowledge on the concept of early marriage. The candidate also demonstrated a poor command of English Language.

## 3.0 PERFORMANCE OF CANDIDATES IN EACH TOPIC/QUESTION

The performance of candidates is clustered in three groups namely, good (65 to 100 %), average (30 to 64 %) and weak (0 to 29 %). These clusters are represented in figures and appendix A by green, yellow and red colours, respectively. The analysis indicates that the overall performance was good because 98.55 percent of the candidates who sat for this examination passed.

The analysis in each question shows that 9 questions had good performance. The number of questions and the candidates' performance for each in percentages are: 5 (95.6%), 7 (92.0%), 9 (84.2%), 1 (82.0%), 2 (81.8%), 11 (80.1%), 10 (71.9%), 8 (71.4%) and 4 (65.9%). These questions were composed from the topics of *Packed Meals*, *Vegetables and Fruits*, *Malnutrition*, *multiple choice items from various topics*, *Kitchen Planning* (*matching items*), *Early Marriage*, *Feeding the Baby*, *Kitchen and Food Hygiene* and *Food Preservation*. Good performance in these questions is attributed to the ability of the candidates to understand the requirements of the questions, and the possession of a wide knowledge and practical skills of the topics on which the items were set.

Further analysis shows that two out of the six short answer questions had average performance. They include question 6 (57.0%) and question 3 (39.3%). Question 6 was composed from *Cleaning Agents* topic and question 3 from *Food and Nutrition* topic. The average performance observed in these questions has been associated with the following limitations: inability to understand the requirements of the questions, poor proficiency in English Language and insufficient knowledge of the tested concepts. The analysis of candidates' performance per topic in each question is summarized in appendix A.

### 4.0 CONCLUSION AND RECOMMENDATIONS

#### 4.1 Conclusion

The analysis of the Certificate of Secondary Education Examination (CSEE) 2018 in Food and Nutrition subject has exposed the strengths and weakness of the candidates in answering the questions. The performance was good since 98.55 percent of the candidates passed the examination by scoring grades A, B, C and D. This performance was better compared to that of 2017 by 0.4 percent. The comparison of the performance of the candidates in CSEE 2017 and 2018 is presented in appendix B.

The analysis of candidates' performance in each question indicates that the good and average performances were due to the ability of the candidates to identify the requirements of the questions, and the possession of adequate knowledge and practical skills. Moreover, it has indicated that some candidates failed to understand the instructions of the questions, had low English Language proficiency and lacked some basic knowledge on Food and Nutrition concepts. These hindered them from scoring good marks in some questions. Therefore, teachers, students and other education stakeholders should address such problems so as to raise the standard of education in the country.

#### 4.2 Recommendations

In order to promote good performance in Food and Nutrition in CSEE, the following should be addressed.

- (a) Teachers should teach all topics thoroughly with the emphasis on both theory and practical lessons to meet the set objectives.
- (b) Students should be provided with sufficient homeworks, exercises and tests to enable them revise all the topics stipulated in the syllabus. Teachers should mark tasks they give students and provide feedback.
- (c) Students should be reminded to read the questions carefully and observe the instructions given in each question during examinations. This will enable them to answer the questions according to the requirements.
- (d) Students should be encouraged to use English Language in their day to day communications, build a habit of reading different academic books, and participating in English Language debates and essay writing competitions in order to improve their proficiency in English Language.
- (e) Teachers should use various teaching and learning methods that are student centred in order to increase students' understanding and competency.

 ${\it Appendix} \, A$  Summary of Candidates' Performance in each Topic/Question

S/n	Торіс	Question Number	The % of Candidates with Score of 30% and Above	Remarks
1.	Packed Meals	5	95.6	Good
2.	Vegetables and Fruits	7	92.0	Good
3.	Malnutrition	9	84.2	Good
4.	Multiple Choice Items  Public Health Services,  Laundering in the Home,  Beverages, Methods of Cooking,  Meat, Pastry, Eggs, Packed  Meals, Cereals, and Food  Preservation	1	82.0	Good
5.	Matching Items Kitchen Planning	2	81.8	Good
6.	Early Marriage	11	80.1	Good
7.	Feeding the Baby	10	71.9	Good
8.	Kitchen and Food Hygiene	8	71.4	Good
9.	Food Preservation	4	65.9	Good
10.	Cleaning Agents	6	57.0	Average
11.	Food and Nutrition	3	39.3	Average

Appendix B

