

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA TANZANIA
STANDARD FOUR NATIONAL ASSESSMENT**

05E

SCIENCE AND TECHNOLOGY

Time: 1:30 Hours.

SOLUTIONS

Year: 2020

Instructions

1. This paper consists of sections A and B with a total of **five (5)** questions
2. Answer all questions

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SECTION A (Marks 30)

1. Answer items (i) to (v) by choosing the letter of the correct answer and writing it in the box.

(i) Foods that are rich in vitamins and proteins are

- A. Milk, meat and fish
- B. Tomatoes, onions and carrots
- C. Mangoes, fish and carrots
- D. Fish, rice and maize

A. Milk, meat and fish

These foods contain a lot of protein for body building and also important vitamins for good health.

(ii) Which type of food provides the body with energy?

- A. Cassava
- B. Fish
- C. Milk
- D. Fruits

A. Cassava

Cassava contains carbohydrates which provide energy to the body.

(iii) Which nutrients are found in milk?

- A. Proteins and vitamins
- B. Fats and vitamins
- C. Carbohydrates and fats
- D. Proteins and fats

D. Proteins and fats

Milk contains proteins for body building and fats for energy and warmth.

(iv) What is the function of foods that contain protein nutrients?

- A. To provide the body with energy and heat
- B. To build and repair the body
- C. To provide the body with energy and minerals
- D. To build and protect the body
- B. To build and repair the body

Proteins help in body growth and in repairing damaged body parts.

(v) The following diseases are caused by eating contaminated food, except:

- A. Typhoid fever
- B. Diarrhoea
- C. Cholera
- D. Malaria
- D. Malaria

Malaria is caused by mosquitoes, not by eating contaminated food.

2. Answer items (i) to (v) by matching the descriptions of environmental destruction activities in List A with their meanings in List B. Write the letter of the correct answer in the brackets.

List A

- (i) Disposing chemicals and waste into ponds and rivers (C)
- (ii) Keeping many animals in a small area (A)
- (iii) Results of water, air and soil pollution (A)
- (iv) Spreading waste and chemicals in the soil (F)
- (v) Increase of smoke and dust in the air (B)

List B

- A. Environmental degradation
- B. Air pollution

C. Water pollution

F. Land pollution

3. Answer items (i) to (v) by choosing the correct word from the box below and writing it in the space provided.

Words: reflection, refraction, absorption, blocking, scattering, transmission

(i) What happens when light passes from one medium to another?

Refraction

(ii) What happens when light passes through a transparent object?

Transmission

(iii) What happens when light hits a shiny object?

Reflection

(iv) What happens when light hits a black object?

Blocking

(v) What happens when light meets water droplets in the air?

Scattering

SECTION B (Marks 20)

4. You are given steps A–E of the food digestion process in the digestive system.

Arrange the steps by writing the sentences in the correct order.

Step 1: Food enters the mouth.

Step 2: Food passes through the oesophagus to the stomach.

Step 3: Food is digested and absorbed in the small intestine.

Step 4: Water and minerals are absorbed in the large intestine, leaving food waste.

Step 5: Faeces are removed from the body through the anus.

5. Study the following pictures then answer the questions that follow.

(a) Which two devices represent modern methods of communication?

Mobile phone and television.

(b) Which two devices are used as traditional methods of communication?

Drum and horn.

(c) Which device is not used in communication?

Car.

(d) Why is a device with an antenna important in daily life?

It is important because it receives and transmits communication signals such as radio and television waves.

(e) Which device provides communication without producing sound?

Newspaper.