

**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: 2019**

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**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: MULTIPLE CHOICE AND MATCHING ITEMS

1. Choose the correct answer and write its letter in the box provided:

i) Safe food is the one which is

A. sprayed with insect killers.

B. kept in a clean container.

C. kept for a short time.

D. kept in a place where there is light.

The correct answer is B. kept in a clean container. Food kept in a clean container is protected from contamination by dirt, insects, and germs, making it safe for human consumption.

ii) The following are the preventive measures against diseases except.

A. closing the mouth when coughing.

B. sleeping in a clean and safe place.

C. drinking clean and safe water

D. washing hands before going to the toilet

The correct answer is D. washing hands before going to the toilet. Hand washing is important after using the toilet, not before, so this option is not a correct preventive measure.

iii) Which diseases are caused by pollution of water sources?

A. Whooping cough and measles.

B. AIDS and cholera.

C. Malaria and trachoma.

D. Cholera and bilharzias.

The correct answer is D. Cholera and bilharzias. These diseases are spread through contaminated water sources.

iv) Which is the function of saliva in the digestion of food

- A. To soften food
- B. To soften the mouth
- C. To soften teeth
- D. To soften the tongue.

The correct answer is A. To soften food. Saliva moistens and softens food to make swallowing and digestion easier.

v) In which part does the digestion of food start in the system?

- A. In the stomach
- B. In the oesophagus
- C. In the mouth
- D. In the pancreas.

The correct answer is C. In the mouth. Digestion begins in the mouth where saliva acts on food.

2. Match sentences in List A with its corresponding answer in List B then write the letter of the correct answer in the brackets given.

List A

- (i) A state of matter which is light. ( ... )
- (ii) A state of matter with fixed shape. ( ... )
- (iii) An example of matter in a solid state. ( ... )
- (iv) A state of matter which takes a shape of a vessel. ( ... )
- (v) An example of matter in gaseous state. ( ... )

List B

- A. Gas
- B. Soda
- C. Steam

- D. Liquid
- E. Particles
- F. Chalk
- G. Solid

- (i) The correct answer is A. Gas. Gases are light and can move freely.
- (ii) The correct answer is G. Solid. Solids have a fixed shape.
- (iii) The correct answer is F. Chalk. Chalk is an example of a solid.
- (iv) The correct answer is D. Liquid. Liquids take the shape of the vessel they are in.
- (v) The correct answer is C. Steam. Steam is an example of matter in gaseous state.

## SECTION B

3. Answer item (i) – (vi) by choosing the correct word from the box and write it in the space provided.

Heart burn, constipation, kwashiorkor, marasmus, flatulence, teeth decay, stomach ulcers.

- i) The condition by which a person produces hard and dry faeces is known as

\_\_\_\_\_

The correct answer is constipation. This condition makes bowel movement difficult due to hard stools.

- ii) The condition which is caused by the excess of gas in the stomach is called

\_\_\_\_\_

The correct answer is flatulence. It occurs when gas builds up in the digestive system.

- iii) What is the name of the burning pain in the oesophagus and chest?

\_\_\_\_\_

The correct answer is heart burn. It is caused by acid reflux from the stomach.

- iv) In the digestive system, the sores or lesions in the stomach wall are called

\_\_\_\_\_

The correct answer is stomach ulcers. These sores affect the lining of the stomach.

v) What effect on teeth may result from eating food with too much sugar?

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The correct answer is teeth decay. Excess sugar encourages bacteria that damage teeth

4. Read the following passage and then answer items (i) - (v). The passage was as follows:

Many types of food which we use in our daily life are cooked. Food is cooked using heat energy. The devices used to facilitate the cooking of our food are known as cookers. In Tanzania, the types of cookers mostly used are firewood and charcoal cookers. In recent years, there has been an increase of users of gas cookers in both rural and urban areas. The choice of type of cooker differs depending on the availability, cost and safety of the type of fuel used. These are some of the things to consider when choosing the type of cooker to use.

### **Questions**

i) Name two types of cookers used by many people in Tanzania

The two types of cookers are firewood cookers and charcoal cookers. These are widely used due to availability and low cost.

ii) What kind of energy is used for cooking?

The kind of energy used for cooking is heat energy. Heat helps to soften and prepare food for eating.

iii) What differentiates types of cookers?

Types of cookers are differentiated by availability, cost, and safety of the fuel used.

iv) What do you think is the reason for many people using the firewood cooker?

Many people use firewood cookers because firewood is cheap and easily available, especially in rural areas.

v) Name two other cookers apart from those mentioned in the passage

Other cookers include electric cookers and kerosene cookers. These are used depending on access to electricity and fuel.

5. Observe the picture given, then answer items (i)-(v)

i) What is the name of the object in the picture? \_\_\_\_\_

The object is a television set. It is used for receiving and displaying information.

ii) Label the part which carries electrical power from the socket by using letter A.

The part is the power cable. It supplies electricity to the device.

iii) Label the part which displays pictures by using letter B

The part is the screen. It shows images and videos.

iv) Label the part that picks up signals in the air by using letter C

The part is the antenna. It receives broadcast signals.

v) Why is the device shown in the picture important to us?

The device is important because it provides information, education, and entertainment to people.