

**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: 2021

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)

Answer all questions in this section.

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

(i) What is the function of an antenna in a radio?

- A. To adjust sound
- B. To receive waves from the air
- C. To tune stations
- D. To amplify sound
- B. To receive waves from the air

An antenna receives radio waves from the air so that they can be processed and produce sound.

(ii) Which modern devices are used in communication?

- A. Telephone, radio and television
- B. Drum, whistle and television
- C. Radio, newspaper and trumpet
- D. Telephone, drum and trumpet
- A. Telephone, radio and television

These devices use modern technology to transmit information and messages.

(iii) How are pictures and written messages displayed on a television?

- A. Through the speaker
- B. Through the screen
- C. Through the antenna
- D. Through the remote control
- B. Through the screen

The screen is the part of the television that displays pictures and written messages.

(iv) Which company does not provide mobile network services in Tanzania?

- A. TTCL
- B. VODACOM
- C. TECNO
- D. TIGO
- C. TECNO

TECNO is a company that manufactures mobile phones, not a mobile network service provider.

(v) Calls made when urgent help is needed are called what?

- A. Wind calls
- B. Important calls
- C. Voice calls
- D. Emergency calls
- D. Emergency calls

These calls are used to obtain quick help in dangerous situations.

2. Answer items (i) to (v) by matching the symptoms of diseases in List A with the corresponding diseases in List B. Write the letter of the correct answer in the brackets.

List A

- (i) Stiffening of joints and bending of the neck (C)
- (ii) Appearance of small rashes all over the body (E)
- (iii) Passing stool like rice-washed water (G)
- (iv) Frequent urination (B)
- (v) Producing a whistling sound when breathing (F)

List B

- C. Tetanus
- E. Measles

G. Cholera

B. Diabetes

F. Asthma

3. Answer items (a) to (e) by writing the steps of scientific investigation found in the box.

Given steps: Data analysis, Interpretation of results, Formulating a hypothesis, Conducting an experiment, Identifying the problem.

(a) The first step

Identifying the problem

(b) The second step

Formulating a hypothesis

(c) The third step

Conducting an experiment

(d) The fourth step

Data analysis

(e) The fifth step

Interpretation of results

SECTION B (Marks 20)

Answer all questions in this section.

4. Read the following passage, then answer items (a) to (e) by writing the correct answer in the spaces provided.

Wearing dirty clothes causes bad body odor and sometimes skin diseases. Clean clothes make a person look neat and attractive. To make clothes clean, they must be washed using clean water and soap. After clothes dry, they should be ironed to kill disease-causing germs. Ironing clothes also makes the wearer look neat. Once clothes are clean, they can be worn or stored in a clean and dry place, such as in a box or cupboard.

(a) What items are needed when washing clothes?

(i) Clean water

(ii) Soap

(b) What is the effect of wearing dirty clothes?

The effect is causing bad body odor and skin diseases.

(c) Why do we iron clothes? Give one reason.

We iron clothes in order to kill disease-causing germs.

(d) What kills germs during ironing?

The heat from the iron kills disease-causing germs.

(e) Why are clean clothes stored in cupboards or boxes?

They are stored there so that they remain clean and dry.

5. Use the tools shown in the pictures to answer items (a) to (e). Write the answer in the space provided.

(a) Which tool gives a non-standard measurement?

Bucket

(b) Which tool measures the volume of water accurately?

Measuring cylinder

(c) Which tool is used to measure the length of a desk?

Ruler

(d) Which tool is used to measure the weight of an object?

Weighing scale

(e) Why is a measurement taken using a ruler considered a standard measurement?

Because a ruler has measurements that are accepted nationally and internationally.