

S.M.Z
ZANZIBAR EXAMINATIONS COUNCIL
STANDARD FOUR EXAMINATION
SCIENCE

123

Time: 1:30 Hours.

SOLUTIONS

Year: 2020

INSTRUCTIONS TO CANDIDATES

- 1. This paper consists of TWO (2) sections A and B.**
- 2. Answer ALL questions in section A and B.**
- 3. Cellular phones are not allowed in the examination room.**
- 4. Write your examination number on every page.**
- 5. Write your answers on the space provided.**



SECTION A: (MARKS 40)

Answer ALL questions in this section.

1. Choose the correct answer, then write its letter in the table below the questions.

i. The function of a toothbrush is

- A. Washing the face
- B. Washing clothes
- C. Cleaning teeth
- D. Cleaning the toilet

The correct answer is C. Cleaning teeth. A toothbrush is used to remove dirt and germs from the teeth in order to prevent tooth decay and oral diseases.

ii. Sources of water are

- A. Rain, river, and well
- B. Spring, trench, and well
- C. Ocean, river, and tank
- D. Well, pit, and spring

The correct answer is A. Rain, river, and well. These are natural sources of water used by human beings.

iii. One of the types of forests is

- A. Straight forests
- B. Beautiful forests
- C. Natural forests
- D. Attractive forests

The correct answer is C. Natural forests. Natural forests grow naturally without being planted by human beings.

iv. One of the sources of air is

- A. Water
- B. Fan
- C. Window
- D. Air conditioner

The correct answer is C. Window. A window allows air to enter and leave a house.

v. A meal that contains all food nutrients is called

- A. Mixed foods
- B. Balanced food
- C. Fruits and vegetables
- D. Balanced diet

The correct answer is D. Balanced diet. A balanced diet contains all nutrients required by the body.

2. Write True or False for the following statements in the table below.

- i. Use a fresh wooden stick to rescue a person who has been electrocuted.

The answer is True. A fresh wooden stick does not conduct electricity and is therefore safe.

- ii. Non-flowering plants do not produce true fruits.

The answer is True. Plants that do not produce flowers do not form true fruits.

- iii. Wild animals need human care.

The answer is False. Wild animals survive independently in the wild without human care.

iv. Soil is the top layer of the earth.

The answer is True. Soil covers the upper part of the earth.

v. Disposing waste in water sources provides us with clean and safe water.

The answer is False. Waste disposal pollutes water and makes it unsafe.

3. Match the descriptions in List A by choosing the correct answer from List B. Write only the letter in the table below.

LIST A

- i. Its leaves are narrow and pointed
- ii. Makes food with the help of sunlight, air, and water
- iii. Benefits of forests
- iv. Plants that store food in leaves
- v. Produces fruits and seeds

LIST B

- A. Mango and orange
- B. Vegetables
- C. Onion and cabbage
- D. Causes rainfall
- E. Lemongrass and maize
- F. Tubers
- G. Plants
- H. Lemongrass and cassava

i. The correct answer is E. Lemongrass and maize. These plants have narrow, pointed leaves.

- ii. The correct answer is G. Plants. Plants make food using sunlight, air, and water.
- iii. The correct answer is D. Causes rainfall. Forests contribute to rainfall formation.
- iv. The correct answer is C. Onion and cabbage. These plants store food in their leaves.
- v. The correct answer is A. Mango and orange. These plants produce fruits with seeds.

4. Fill in the blanks. Use the words given in the box below.

(cotton, HIV, thirst, handle, dirty, AIDS virus, cloth, belt)

i. Found in a first aid box and used to clean a wound _____.

The answer is cotton. Cotton is used to clean and cover wounds.

ii. When we feel _____, we drink water.

The answer is thirst. Thirst is the body's need for water.

iii. The abbreviation for the virus that causes AIDS is _____.

The answer is HIV. HIV stands for Human Immunodeficiency Virus.

iv. A long wooden part fixed into a hoe is called _____.

The answer is handle. A handle is used to hold tools like a hoe.

v. A drainage channel is a structure used to carry _____ water.

The answer is dirty. Drainage channels carry dirty or waste water.

SECTION B: (MARKS 60)

Answer ALL questions in this section.

5. a) Write two minerals found in the soil.

- i. Iron. Iron is found in the ground and is used to make various tools.
- ii. Copper. Copper is widely used in electrical installations.

b) Mention two items made by pottery.

- i. Clay pot. Used for storing or cooking food.
- ii. Clay saucepan. Used for cooking food.

c) Mention two living organisms that live in the soil.

- i. Earthworms. They help to enrich the soil.
- ii. Ants. They live and dig tunnels in the soil.

6. a) What is a thermometer?

A thermometer is a device used to measure the temperature of an object, the environment, or the human body.

b) i. How many types of thermometers are there?

There are two types of thermometers.

ii. Name them

Clinical thermometer and laboratory thermometer.

c) Explain the three main ways heat is transferred.

i. Conduction. Heat travels through solids such as metals.

- ii. Convection. Heat travels through liquids and gases.
- iii. Radiation. Heat travels without a medium, for example from the sun.

7. a) What is a rainbow?

A rainbow is a multicolored light seen in the sky after rainfall when the sun shines.

b) How is a rainbow formed?

A rainbow is formed when sunlight passes through raindrops and splits into different colors.

c) Mention all the colors found in a rainbow.

Red, orange, yellow, green, blue, indigo, and violet.

8. a) What is an echo?

An echo is the return of sound after hitting a hard surface such as a wall or a mountain.

b) List four things that cause echoes.

- i. Wall
- ii. Mountain
- iii. Rock
- iv. Tall building

c) Mention two places where echoes are used.

- i. Caves
- ii. Large halls

9. a) What is water harvesting?

Water harvesting is the process of collecting and storing rainwater for future use.

b) Complete the following table by choosing correct words from the brackets.
(thread, water, milk, timber, wind)

SOLIDS: thread, timber

LIQUIDS: water, milk

GAS: wind

c) Mention three characteristics of clean and safe water.

- i. It has no color.
- ii. It has no smell.
- iii. It has no taste.

10. What activities are shown in the following pictures?

- i. Cleaning/scrubbing a toilet
- ii. Weaving
- iii. Sweeping
- iv. Cooking food
- v. Animal keeping