

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

123

Time: 1:30 Hours.

**SOLUTIONS**

Year: 2021

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**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. Living organisms need air for

- A. Seeing
- B. Breathing in
- C. Listening
- D. Reading

The correct answer is B. Breathing in. Living organisms need air so that they can breathe and obtain oxygen which is essential for carrying out body activities.

ii. Stress is caused by

- A. Long term illness
- B. Being together with the community
- C. Stopping revision of studies
- D. Malaria disease

The correct answer is A. Long term illness. Being sick for a long time causes a person to have many worries and stress.

iii. Which is a good and easy way of making a magnet?

- A. Stroking in one direction
- B. Induction
- C. Stroking in two directions
- D. Using electricity

The correct answer is A. Stroking in one direction. Repeatedly stroking iron in one direction makes a magnet easily.

iv. A pair of insects with wings is

- A. Butterfly and tsetse fly
- B. Butterfly and housefly
- C. Spider and grasshopper
- D. Bee and millipede

The correct answer is B. Butterfly and housefly. Both insects have wings which enable them to fly.

v. A device that does not produce sound is

- A. Radio
- B. Bell
- C. Speaker
- D. Electric cooker

The correct answer is D. Electric cooker. An electric cooker is used for cooking food and does not produce sound.

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

i. Rake, machete, and hoe are used to clean the garden.

The answer is True. These tools are used to remove weeds and clean the garden.

ii. Air does not transmit sound.

The answer is False. Air transmits sound from the source to the ears.

iii. Permanent magnets do not lose their magnetism.

The answer is True. Permanent magnets retain their magnetic strength for a long time.

iv. It is possible to take a photograph without the presence of light.

The answer is False. Light is necessary for an image to be seen.

v. Planted forests produce soft timber.

The answer is True. Planted forests often produce soft timber such as conifers.

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. A cold blooded organism
- ii. Transmits heat by conduction
- iii. A natural source of light
- iv. A disease that can be inherited
- v. A warm blooded organism

LIST B

- A. Sun
- B. Refrigerator
- C. Human being
- D. Cholera
- E. Lizard
- F. Nail
- G. Candle
- H. Diabetes

i. The correct answer is E. Lizard. A lizard is cold blooded.

- ii. The correct answer is F. Nail. A nail transmits heat by conduction.
- iii. The correct answer is A. Sun. The sun is a natural source of light.
- iv. The correct answer is H. Diabetes. Diabetes is a disease that can be inherited.
- v. The correct answer is C. Human being. Human beings are warm blooded.

4. Fill in the blanks. Use the words given in the box below the questions.  
(important, chameleon, glass, copper, earth, roller, wood, tasty)

i. Chairs and tables are made using \_\_\_\_\_.

The answer is wood. Most furniture is made of wood.

ii. A balanced diet is \_\_\_\_\_ in our bodies.

The answer is important. A balanced diet is important for health and growth.

iii. Soil is the top layer of \_\_\_\_\_.

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

iv. An animal that changes the color of its skin is \_\_\_\_\_.

The answer is chameleon. A chameleon changes its color according to the environment.

v. A material that conducts heat easily is \_\_\_\_\_.

The answer is copper. Copper is a good conductor of heat.

SECTION B: (MARKS 60)

Answer ALL questions in this section.

5. a) Write two names of domesticated animals.

- i. Cow. A cow is kept for milk, meat, and hide.
- ii. Chicken. A chicken is kept for eggs and meat.

b) Mention two names of wild animals.

- i. Lion. A lion lives in the wild and is not domesticated.
- ii. Elephant. An elephant is a wild animal that cannot be domesticated.

c) Give three differences between domesticated and wild animals.

- i. Domesticated animals live close to human beings, while wild animals live in the wild.
- ii. Domesticated animals provide direct benefits such as food, while wild animals do not provide such benefits directly.
- iii. Domesticated animals are protected by humans, while wild animals protect themselves.

6. a) Mention the names of plants and their fruits shown in the pictures.

i.

Name of the plant: Pawpaw plant.

Name of the fruit: Pawpaw.

ii.

Name of the plant: Banana plant.

Name of the fruit: Banana.

b) What is the meaning of forests?

Forests are areas with many trees growing naturally or planted by human beings.

c) i. Mention two plants that store food in the stem.

Sweet potatoes.

Cassava.

ii. Write two plants that store food in the leaves.

Cabbage.

Spinach.

7. a) What is the meaning of cancer?

Cancer is a disease caused by abnormal growth of body cells which multiply uncontrollably.

b) Mention two symptoms of cancer.

i. Presence of a painless swelling that increases in size.

ii. Loss of weight without a clear reason.

c) Write two ways of preventing cancer.

i. Eating a balanced diet with enough nutrients.

ii. Avoiding smoking and excessive use of alcohol.

8. a) Food nutrients are important in the human body. Write the correct type of nutrient that performs the following functions.

i. Forms blood cells in the body.

The answer is iron minerals.

ii. Builds the body and helps wounds heal quickly.

The answer is proteins.

iii. Provides warmth to the body.

The answer is fats.

b) There are many things to consider in cooking. Mention two things to consider.

i. Cleanliness of utensils and the cooking environment.

ii. Cooking food properly to kill germs.

9. a) Mention the name of a hygiene item and its use in the table below.

i. Name of the item: Soap.

Use: Washing.

ii. Name of the item: Comb.

Use: Combing hair.

iii. Name of the item: Dustpan or tongs.

Use: Picking up items.

b) In many streets there is a habit of improper disposal of waste water. Write two effects of improper disposal of waste water.

i. It causes outbreaks of epidemic diseases such as cholera.

ii. It pollutes the environment and harms community health.

10.a) Mention two non natural sources of light used at home.

i. Electric bulb.

ii. Candle.

b) Write one function of light in our daily life.

Light enables us to see and carry out our activities properly.

c) List two properties of light.

i. Light travels in a straight line.

ii. Light is reflected when it hits a glass surface or water.