

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

123

Time: 1:30 Hours.

**SOLUTIONS**

Year: 2019

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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. Which of the following is NOT a preventive measure against high blood pressure?

A: Doing exercises

B: Reducing stress

C: Quitting smoking and drinking alcohol

D: Eating fatty foods

The correct answer is D. Eating fatty foods. Foods with a lot of fat increase the risk of getting high blood pressure instead of preventing it.

ii. A hospital thermometer can measure temperature

A: 35°C to 43°C

B: 0°C to 100°C

C: 35°C to 100°C

D: 0°C to 35°C

The correct answer is A. 35°C to 43°C. A hospital thermometer is used to measure human body temperature within this range.

iii. A rainbow has

A: Five colors

B: Six colors

C: Eight colors

D: Seven colors

The correct answer is D. Seven colors. A rainbow has seven colors which appear after rainfall.

iv. Tools used to clean a garden by digging the soil

A: Rake, hoe, and spade

B: Hoe, fork, and mattock

C: Rake, hoe, and mattock

D: Rake, fork, and spade

The correct answer is C. Rake, hoe, and mattock. These tools are used to dig and clean soil in the garden.

v. A device that does not measure electricity

A: Voltmeter

B: Ammeter

C: Speedometer

D: Electric sensor

The correct answer is C. Speedometer. A speedometer measures the speed of a vehicle and is not related to electricity.

2. Read the statements and then write True or False in the table below the questions.

a) The functions of a hoe and a fork are similar.

The answer is True. Both are used to dig and prepare the soil.

b) Rainwater is clean water.

The answer is True. Rainwater is naturally clean before being polluted.

c) Fruits and vegetables give the body heat and energy.

The answer is False. Fruits and vegetables mainly provide vitamins and minerals rather than heat and energy.

d) Domesticated animals need care and attention from human beings.

The answer is True. Domesticated animals depend on humans for food and protection.

e) Natural forests in the same area have trees of different ages.

The answer is True. Trees in natural forests grow at different times.

3. Match the descriptions in List A with the correct word from List B. Write only the letter in the table below.

List A

Echo

Buckets and jerrycans

Epilepsy

Fatty foods

Drainage channel

List B

A. A hot object

B. Sound of a drum

C. Gives the body energy and heat

D. Sound returning to the source

E. Infectious diseases

F. Used to store clean water

G. Ways of passing water

H. A disease that causes falling, convulsions, then calming down

Echo, the correct answer is D. Echo is the return of sound to its source.

Buckets and jerrycans, the correct answer is F. They are used to store clean water.

Epilepsy, the correct answer is H. It is a disease that causes falling and convulsions.

Fatty foods, the correct answer is C. They give the body energy and heat.

Drainage channel, the correct answer is G. A drainage channel is a way of passing water.

4. Fill in the blanks using the words in the box below.

(in the ground, octopus, domesticated, happiness, color, roots, wild, diseases, dolphin, rocky areas)

a) Grasshoppers, locusts, and crocodiles are \_\_\_\_\_.

The answer is wild. These organisms live in the wild and are not domesticated.

b) Stress is caused by \_\_\_\_\_ and poverty.

The answer is diseases. Frequent illness increases stress.

c) Gas and petrol are obtained from \_\_\_\_\_.

The answer is in the ground. Sources of gas and petroleum are found underground.

d) The good smell of flowers and \_\_\_\_\_ attract insects.

The answer is color. Bright colors of flowers attract insects.

e) Whales and \_\_\_\_\_ are vertebrates.

The answer is dolphins. Both are aquatic animals with backbones.

SECTION B: (MARKS 60)

Answer ALL questions in this section.

5. Arrange the following diseases into infectious and non infectious diseases.

AIDS, syphilis, pollution related illness, asthma, tuberculosis, cancer, bilharzia, diabetes, high blood pressure, and cholera.

Infectious diseases are AIDS, tuberculosis, bilharzia, cholera, and syphilis. These diseases spread from one person to another or through the environment.

Non infectious diseases are diabetes, high blood pressure, cancer, asthma, and pollution related illness. These diseases do not spread through infection.

6. Complete the table by filling in the missing information.

Vitamin A is found in liver, carrots, and green leafy vegetables, and its deficiency causes poor vision especially at night.

Vitamin D is found in butter and milk, and its deficiency causes weak bones.

Vitamin K is found in green leafy vegetables, and its deficiency causes blood to fail to clot properly.

Vitamin C is found in fruits, and its deficiency causes mouth sores and bleeding gums.

Vitamin B2 is found in milk and eggs, and its deficiency causes poor vision and mouth sores.

7. a) Write five characteristics of flowering plants.

Flowering plants produce flowers before forming fruits.

They produce fruits that contain seeds.

They generally have broad leaves.

They depend on insects or wind for pollination.

They grow in different climatic environments.

b) Mention five types of flowering plants.

Mango trees.

Orange trees.

Tamarind trees.

Avocado trees.

Cashew nut trees.

8. a) What is the meaning of forests?

Forests are areas with a large concentration of trees that grow naturally or are planted by human beings.

b) i) How many types of forests are there?

There are two types of forests.

ii) Name them.

Natural forests and planted forests.

c) Mention two advantages of forests in daily life.

Forests provide clean air and help in rainfall formation.

Forests provide timber, firewood, and habitats for animals.

9. a) Mention four sources of electricity.

Hydroelectric power.

Solar power.

Wind power.

Electricity from oil or gas.

b) Draw two devices that use electricity and write their names.

Name: Radio.

Name: Fan.

10.a) Mention one liquid that produces sound.

Boiling water produces sound.

b) Mention one solid object that produces sound.

A bell produces sound when struck.

c) Look at the drawings below. Through which method do these devices produce sound?

Through vibration.

A is a drum and B is a bell.