



Negombo Education Zone

Second Term Evaluation 2024

Science



Index number:.....

Grade 08

Paper I & II

Time 02 Hours

Instructions:

- Answer all the questions in part I. Select the most appropriate answer and underline it.
- Answer 5 questions in Part II including 1st question.

Part I

01. Identify the animal that **does not** exhibit bilateral symmetry.

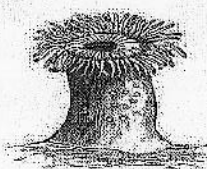
i.



ii.



iii.



iv.



02. Among the following, select the **magnetic material**.

i.

Aluminum

ii.

Nickel

iii.

Copper

iv.

Stainless Steel

03. An electrical device that depends on the **heating effect of electric current** is,

i.

Electric Fan

ii.

Electric Kettle

iii.

Light Bulb

iv.

Electric Motor

04. Regarding the Xylophone, which statement is **true**?

A.

Sound is produced by the vibration of the plate.

B.

The plate with the shortest length has the highest frequency.

C.

The longest plate has the lowest frequency.

i.

A and B only

ii.

A and C only

iii.

B and C only

iv.

All three statements A, B and C are correct

05. Which of the following **cannot be considered** evidence that a chemical reaction has occurred?

i.

Change in color

ii.

Evolution of gas

iii.

Change in physical state

iv.

Formation of precipitates

06. Among these, identify the brown gas,

i.

Nitrogen Dioxide

ii.

Sulphur Dioxide

iii.

Oxygen

iv.

Hydrogen

07. Which of the following is **true** about **the density of a pure metal**?

i.

Always takes a high value

ii.

Often takes a low value

iii.

Takes a definite value

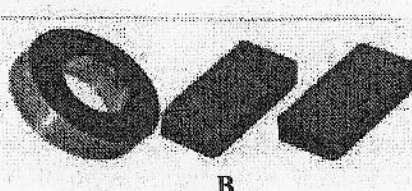
iv.

The densities of all metals are the same

08. Some types of magnets are shown in the figure below.



A



B

The materials from which these types of magnets are made, **respectively**,

i.

Steel and Ferrite

ii.

Ferrite and Steel

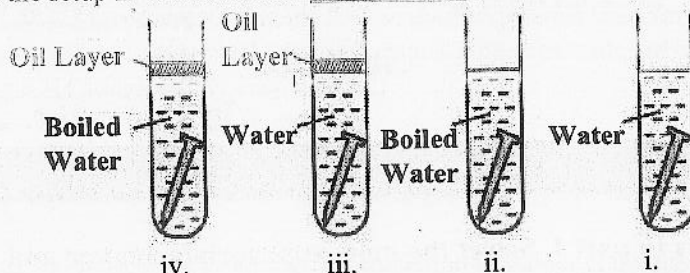
iii.

Both A and B types are made of Steel

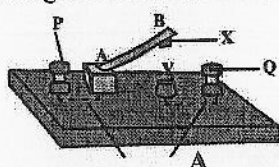
iv.

Both A and B types are made of Ferrite

09. Choose the setup in which the nail does not rust after a few days.



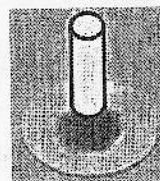
10. Among the listed devices, choose the combination that includes only current control devices.



- i. A and B ii. A and C iii. A and D iv. B and C

11. When a piece of chalk is placed in red ink, the ink rises along the chalk. What is the most appropriate explanation?

- i. The piece of chalk is discontinuous.
 ii. The red ink is discontinuous.
 iii. The red ink, is discontinuous but the chalk is not
 iv. Both the red ink and the chalk are discontinuous.



12. Select the incorrect match between the part of the central nervous system and its function,

- i. Cerebellum: Identifying responses.
 ii. Spinal cord: Transmission of messages between body and brain.
 iii. Cerebrum: Memory.
 iv. Medulla Oblongata: Controls the heart rate.

13. "Udekkiya" refers to,

- i. A musical instrument that produces sound by vibrating an air column.
 ii. A musical instrument that produces sound by vibrating a membrane.
 iii. A musical instrument that produces sound by vibrating strings.
 iv. A musical instrument that produces sound by vibrating bars.

14. Identify the beneficial effect of microorganisms on humans,

- i. Causing diseases in various crops.
 ii. Decomposition of wood.
 iii. Decomposition of dead plant and animal matter.
 iv. Spoiling food, making it unsuitable for consumption.

15. The boiling point of pure water at standard atmospheric pressure is 100°C . What statement is true about the boiling point of water at the top of a mountain?

- i. It is less than 100°C .
 ii. It is more than 100°C .
 iii. Exactly 100°C .
 iv. It cannot be accurately determined.

16. Determine the function of the plant roots shown in the figure,

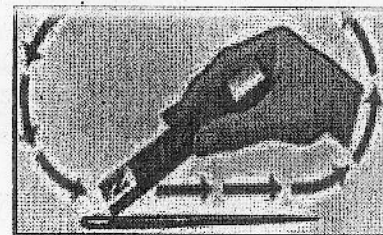
- i. Absorption of water vapour from the atmosphere.
 ii. Attaching the plant to a supporter.
 iii. Acting as a support for the stem.
 iv. Acting as a support for the branches.



- iv. What is the standard unit of quantities measured by the instrument P? (1 Mark)
- v. Write down the standard colours of the negative terminals of instruments P and R. (2 Marks)

B. One method used to create magnets is shown in the figure below.

- i. What is the name of the method, shown above, regarding creating magnets? (1 Mark)
- ii. What alloy should be used to make a stronger permanent magnet? (1 Mark)
- iii. Show with a labeled diagram how to make a temporary magnet using the electrical method. (2 Marks)



(Total Marks: 11)

04.

A. Write the term/terms that match the description given below.

- i. The area over which the magnetic force of a magnet is spread -
- ii. Food production process in plant leaves with the help of light energy -
- iii. Classification of animals into groups according to common characteristics -
- iv. Sound-producing equipment -
- v. The substances that can be burnt - (5 Marks)

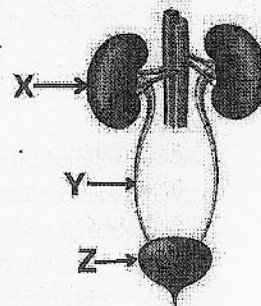
B. State whether the following statements are correct "✓" or incorrect "X" by placing the respective symbol in front of each statement. (6 Marks)

- i. The protective membranes around the brain and spinal cord are called meninges. ()
- ii. Oxygen gas is consumed when iron rusts. ()
- iii. Steel is used to make more powerful magnets. ()
- iv. The reaction between an acid and a base is called a neutralization reaction. ()
- v. Cells should be connected in parallel to get more current than series. ()
- vi. When a few drops of phenolphthalein are added, hydrochloric acid turns pink. ()

(Total Marks: 11).

05. The waste products produced during chemical reactions in the living body are called excretory substances.

- i. Name two excretory products produced in the human body. (2 Marks)
- ii. What is the term, used to the process of removing excreting products, from the body? (2 Marks)
- iii. Below is the urinary system designed for the removal of nitrogenous excretory products in the human body.
 - a) Name the parts labeled as x, y, and z in the diagram. (3 Marks)
 - b) What is the excretory organ shown here? (1 Mark)
 - c) Name an excretory organ in the human body other than the one mentioned in (b). (1 Mark)
 - d) What is the main compound found in urine? (1 Mark)
 - e) Kidney stones are a disease related to this system. Kidney stones are formed by the crystallization of which salt? (1 Mark)



(Total Marks: 11)

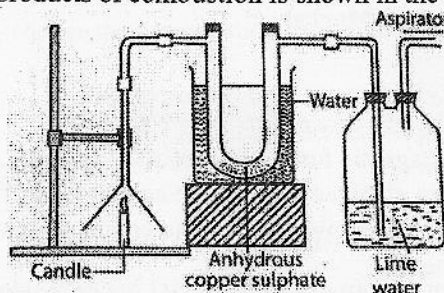
06.

A. Fire is an adverse result of combustion. Knowledge of fire extinguishing is important for everyone. The elements necessary for a fire to occur are represented in the fire triangle.



- i. What factor is represented by the "X" in the fire triangle? (1 Mark)
- ii. Given below are some methods for extinguishing fires. Indicate which factors in the fire triangle are addressed by each method,
 - a) Sprinkling water on the fire -
 - b) Covering the body with a thick material when a garment catches fire. - (2 Marks)
- iii. Water should not be used for extinguishing which type of fire? (2 Marks)

B. An activity to identify the products of combustion is shown in the figure below.



- i. Mention the reason for using limewater here? (2 Marks)
 - ii. What are the observations when the aspirator is turned on? (2 Marks)
 - iii. Based on the observations mentioned in (ii), what are the results of combustion? (2 Marks)
- (Total Marks: 11)

07.

A. Given below are some musical instruments.

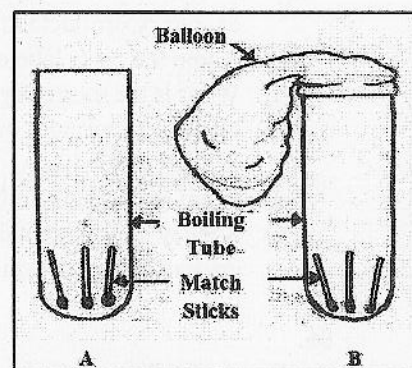
drum, violin, trumpet, double drum (tammattama).

- i. Classify these musical instruments into three types according to the way they produce sound. (3 Marks)
- ii. What should be done to produce a high-frequency sound from a drum? (1 Mark)
- iii. Name a traditional musical instrument from the list provided. (1 Mark)

B. Below are two diagrams related to an activity carried out to test a certain chemical law.

At the beginning of the test, the mass of both setup is measured with a triple beam balance. The mass is measured again after the setups have been burned and the boiling tubes have cooled.

- i. What happens to the mass of the setup A before and after combustion? (1 Mark)
- ii. What happens to the mass of setup B before and after combustion? (1 Mark)
- iii. Explain the reasons for the observations in (i) and (ii). (1 Mark)
- iv. Identify the closed system and open system among diagrams A and B. (2 Marks)
- v. Write down the law confirmed by the observation of diagram B. (1 Mark)



(Total Marks: 11)

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