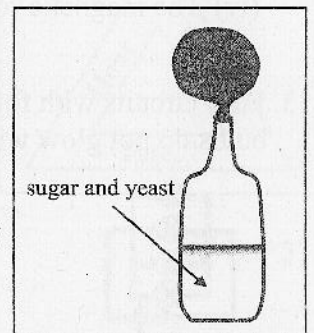


බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව மேல் மாகாணக் கல்வித் திணைக்களம் Department of Education - Western Province			
වර්ෂ අවසාන ඇගයීම - 2024 (2025) ஆண்டிறுதி மதிப்பீடு - 2024 (2025) Year End Evaluation - 2024 (2025)		N ^o 007034	
ශ්‍රේණිය தரம் Grade	08	විෂය பாடம் Subject	Science
		පත්‍රය வினாத்தாள் Paper	I/II
		කාලය காலம் Time	පැය 2
නම பெயர் Name		විභාග අංකය சுட்டிலக்கம் Index No.	

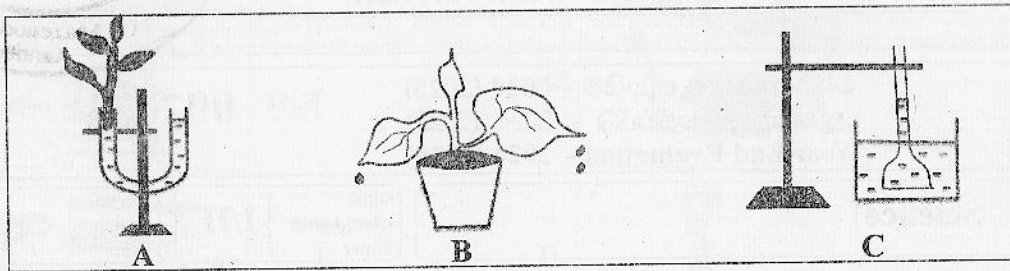
I Part

01. What quantity is measured in killograms per cubic meter (kg m^{-3})?
 (i) Melting point (ii) Density (iii) Boiling point (iv) Resistance
02. An example of an easily compressible material is,
 (i) Water in a glass (ii) Cake mixture
 (iii) Cement mortar mixture (iv) Balloon filled with Helium gas
03. When a drop of red paint is added to a basin of water, the water turns red. What does this confirm?
 (i) The particulate nature of liquid matter (ii) The particulate nature of air matter.
 (iii) The discontinuous nature of solid matter. (iv) The physical nature of matter.
04. What is **not** a chemical change?
 (i) Condensation of liquid wax (ii) Corrosion of iron nails
 (iii) Burning a match stick (iv) A dry cell is connected to a circuit
05. When a solution made by mixing sugar and yeast is put in a bottle and a balloon is attached as shown in the image, it can be observed that it inflates, the gas may be,
 (i) Nitrogen (ii) Oxygen
 (iii) carbon dioxide (iv) Hydrogen
06. Microbial action on protein and lipid rich foods are indicated respectively,
 (i) fermentation and rancidity (ii) Putrefaction and texture
 (iii) Fermentation and Putrifaction (iv) Putrifaction and rancidity
07. A : Dead plant and animal parts are decomposed.
 B : Grows well on abiotic surfaces
 C : used for pest control.
 Of above statements, that indicate the adverse effects of microorganisms are,
 (i) A only (ii) B only (iii) C only (iv) A and B only
08. Contains only plants with tuburous roots,
 (i) Gahala, Ginger, Onion (ii) Manioc, Sweet potato, dahlia
 (iii) Beet, radish, carrot (iv) Betel, Pepper, Vanilla



09. The phenomena shown by diagrams A, B, C respectively are,

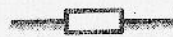
- | | |
|---|--|
| (i) Transpiration, Guttation, Osmosis | (ii) Osmosis, Transpiration, Diffusion |
| (iii) Transpiration, Guttation, Diffusion | (iv) Osmosis, Guttation, Diffusion |



10. Select the **incorrect** of the tuning fork used in the laboratory to study vibrational frequency.

- The sound they make varies depending on the length of the arm.
- It changes the frequency, by changing the length of the arm.
- Turning fork increase its frequency, when the length of its arm decreases.
- Turning fork increase its frequency, when the length of its arm increases.

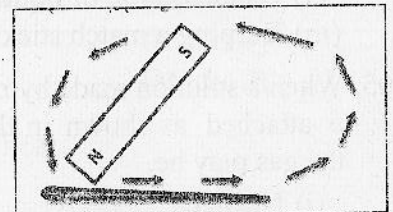
11. Below are the symbols of three electrical equipment. Select the option which indicates them respectively.



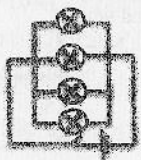
- | | |
|------------------------------------|---------------------------------------|
| (i) Ammeter, Voltmeter, Conductor | (ii) Voltmeter, Ammeter, ohm meter |
| (iii) Ammeter, Resistor, Voltmeter | (iv) Potentiometer, Resistor, Ammeter |

12. By placing one end of a magnet on a needle and pulling it in the same direction as in the figure,

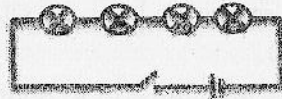
- A permanent magnet can be made electrically.
- The contact method can make a permanent magnet.
- Depleted magnetic forces can be recovered
- The magnetic force of permanent magnet can be depleted.



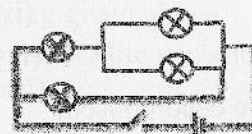
13. Four circuits with four equal bulbs are shown in the figure below. What is the circuit in which the four bulbs do not glow with the same brightness when the switch is on?



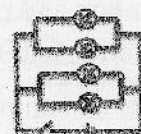
(i)



(ii)



(iii)



(iv)

14. Sirius, the brightest star in the sky is located in which of the following star patterns?

- | | | | |
|------------------|------------|------------------|---------------------|
| (i) Carnis major | (ii) Orion | (iii) Ursa major | (iv) Southern cross |
|------------------|------------|------------------|---------------------|

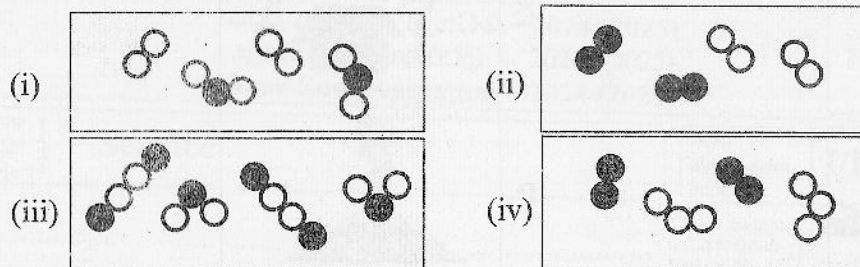
15. Choose the **incorrect** statement from the following statements.

- Phase of moon occur because of the revolution of moon.
- Seasonal changes are clearly visible in the polar regions.
- The rotation period of the earth is 28 days.
- During a solar eclipse, the moon is positioned between the sun and the earth.

16. A chemical which is **not** recommended for use as food preservative,

- (i) Acetic acid (ii) Sodium hydroxide
(iii) Sodium chloride (iv) Sodium bisulfite

17. The arrangement of the atoms that make up the elements is shown below. Choose the diagram that shows both elements and compounds



18. Which is **not** function of an underground stem?

- (i) Storage of food (ii) Propagation (iii) Rigidity (iv) Perennation

19. Which of the following characteristics are true regarding characteristics of molusca?

A : having a muscular foot

B : Having jointed appendages

C : having soft bodies with shells

- (i) A and B (ii) A and C (iii) B and C (iv) A only

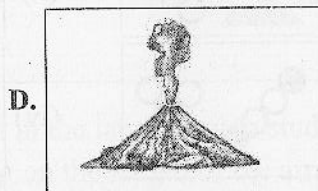
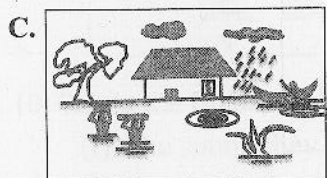
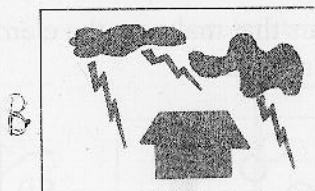
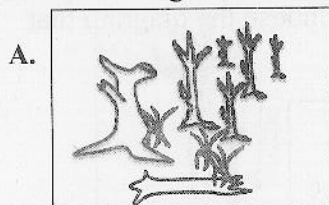
20. Planning agricultural activities in a manner that conserves water is a measure taken in drought disaster management. A least affecting event for this is,

- (i) Using methods to collect rain water in houses and used it for agriculture during dry seasons.
(ii) Encouraging cultivation of drought resistant crops.
(iii) Increasing water capacity of reservoirs to collect more volume during rainy season
(iv) Making rules and regulations to prevent water pollution and increase water conservation

II Part

- Answer the first question and 04 other questions.

Below are 4 diagrams showing natural disasters.



- Identify and name the 4 natural disasters shown above.

A.	B.
C.	D. (1×4 = 4)
- Which of the above given disaster that cannot be experienced in Sri Lanka? (Marks 1)
- Write 2 human activities that cause the disaster situation shown in A. (Marks 2)
- A cause that affects disaster situation C shown in the figure also affects other disaster situation which is **not** shown above.

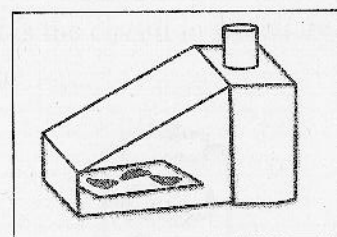
(a) Name that particular disaster.	(Marks 1)
(b) What is the reason for it?	(Marks 1)
- Write two things you should not do in case of the disaster situation shown in B. (Marks 2)
- Mention a health problem caused by the disaster situation shown in C. (Marks 1)
- State the cause of the disaster shown in B. (Marks 1)
- Give a reason why drains overflow even with light rain. (Marks 1)
- Write 3 essential items that should be in an emergency bag. (Marks 2)

02. Below is a diagram of a solar thermal dryer, a modern domestic method used solar heat.

- Write two types of food that are traditionally dried and preserved using solar heat. (Marks 2)

How does drying preserve food.

- Write two reasons why drying food by solar heat drying given above is more successful than drying food completely exposed to the sun's heat. (Marks 2)



- State the appropriate method of preservation for the following foods.

(a) Liquid milk -

(b) Meat, fish, ice cream -

(1×2 = 2)

- (B) Mark (✓) if the following statements are true and mark (×) if they are false.

(a) The fruit fly shows complete metamorphosis. ()

(b) Having several developmental stages in the life cycle ensure the survival of the organism. ()

(c) Knowledge of animal life cycles is most important for conservation of biodiversity. ()

(d) Oxygen, required for respiration, diffuses into the plant leaf through the stomata. ()

(e) The rate of global warming is controlled by photosynthesis. ()

(1×5 = 5)

05. A. The following diagram was prepared by a group of grade 8 students to test one of the factors that contribute to rusting.

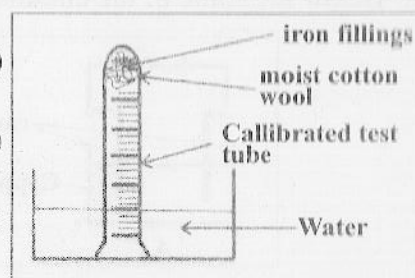
i. What is the factor of rusting tested using this setup? (Marks 1)

ii. (a) What can be observed after a few days of making the above arrangement? (Marks 1)

(b) What is the reason for above mentioned observation. (Marks 1)

iii. Draw a labelled diagram showing the appropriate control experiment for the above experimental setup. (Marks 1)

iv. Mention any two measures that can be taken to protect iron from rusting (Marks 2)



B. Match group P and Q and write the corresponding letter of Q in the box.

Group P		Group Q	
i. Neutral substances		A. give Pink colour when added to phenolphthalein.	
ii. Ash		B. Does not change the colour of red or blue litmus	
iii. Acids		C. pH is less than 7	
iv. Sodium chloride		D. is a basic substance	
v. milk of Magnesia		E. A neutral substance	(1×5 = 5)

06. A. Pay attention to the leaves given below. (Bo, Akkapana, Temple trees, Lotus)

(i) Write down the distinguishing feature of each plant leaf. (Marks 3)

(ii) Name a water storage leaf. (Marks 1)

(iii) Write an adaptation showing the temple tree leaf to minimize transpiration. (Marks 1)

(iv) The food that store in manioc is formed in which type of root. (Marks 1)

B. (i) What is the name given to the specific temperature at which a solid becomes a liquid? (Marks 1)

(ii) If a funnel, water, thermometer, support, Bunsen burner are provided, draw the appropriate diagram for finding the boiling point of a liquid. (Marks 2)

(iii) What is the boiling point of pure water at standered atmospheric pressure? (Marks 1)

(iv) Density bottles are capable of measuring the same volume repeatedly. What is the special feature of its lid? (Marks 1)

07. A. Choose the appropriate word to fill in the blank from the words given in brackets.

(i) When the strings of a violin are pulled too much, it produces a (a low note/ a high note)

(ii) Music therapy (can relive / can not relive) Certain depression conditions.

(iii) Limit of human hearing is (20 Hz - 20 000Hz / 20 Hz - 40 000 Hz)

(iv) A higher frequency can be obtained when the memberane of a drum becomes. (thinner / thick)

(v) By adjusting the length of the vibrating parts of musical instrumants, the frequency (can / can not) be changed. (1×5 = 5)

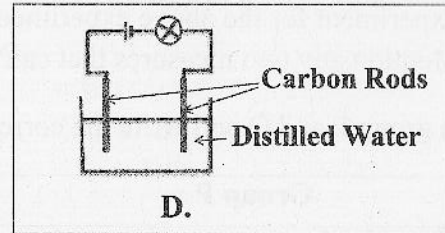
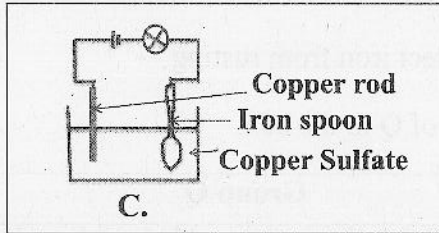
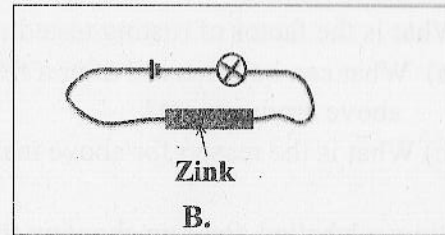
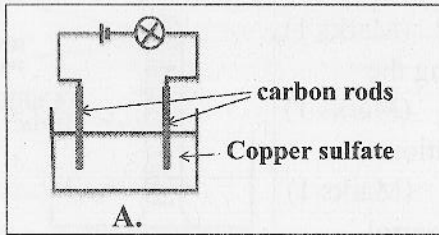
B. (i) Differentiate the following aniamls into vertebrates and invertebrates. (Dragonfly, Salamander, Cahibella, Madua (skate), Leech) (Marks 2)

(ii) Write one characteristic of reptiles. (Marks 1)

(iii) Write two components of urine. (Marks 1)

(iv) Name two disorders of kidney. (Marks 2)

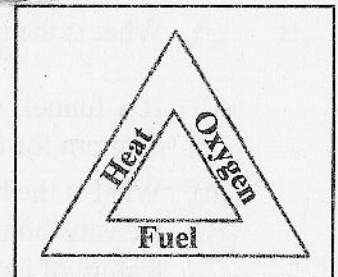
03. Below are some of the circuits made by a grade 8 student to pass an electrical current.



- i. Of the A, B, C, D set ups, which set up does the bulb light up? (Marks 2)
 - ii. What electrolyte is used in A? (Marks 1)
 - iii. (a) What is the metal used for electroplating? (Marks 1)
(b) What can you observe there? (Marks 1)
- B. (i) If you are provided with a dry cell, switch, bulb, connecting wire, voltmeter, draw a suitable circuit to find the potential difference across the bulb. (Marks 3)
- (ii) Mention the function of the following devices.
- (a) Current regulator -
 - (d) Light Dependent Resistor -
 - (c) Tap key -



04. A. i. What is the name of the above image? (Marks 1)
- ii. To extinguish a fire according to the figure above, what factors must be removed? (Marks 2)
- iii. In the following cases, the fire will be extinguished by removing which factor
- (a) Splashing water on coals -
 - (b) Falling on the ground when the clothes he was wearing caught fire -
 - (c) In a burning bookshelf, removing non-burning books -



- B. Choose the appropriate word for the blank from the following words.
(brightness, Automotive Tires and Tubes, Talc, L.P. Gas, Metallic luster, Aluminium, Thermal Conductivity, Lower Melting Point, Hardness, Expansion, Steel) (1×5 = 5)

Physical Properties	Material	The moment the material is used
1. Texture (Smooth)	(a)	Using powder
2. (b)	Gold / Silver	Jewelry Making
3. Elasticity	Rubber	(c)
4. Electrical conductivity	(d)	Power lines
5. (a)	Lead	Soldering