



සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව Department of Education - Western Province සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව Department of Education - Western Province සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව Department of Education - Western Province සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව Department of Education - Western Province	<b>සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව</b> <b>மேல் மாகாணக் கல்வித் திணைக்களம்</b> <b>Department of Education - Western Province</b>	සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව Department of Education - Western Province සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව Department of Education - Western Province සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව Department of Education - Western Province සජ්ජාතිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව Department of Education - Western Province	
<b>වර්ෂ අවසාන ඇගයීම</b> <b>ஆண்டிறுதி மதிப்பீடு</b> - 2019 <b>Year End Evaluation</b>			
ශ්‍රේණිය } தரம் } 06 Grade }	විෂයය } பாடம் } Science Subject }	පත්‍රය } வினாத்தாள் } I, II Paper }	කාලය } காலம் } 02 hours Time }

Name :-..... Index No :-.....

**Consider:**

- Answer all the questions on part I.
- Answer only 5 questions including the first question on part II.

**Part - I**

01. The environmental temperature changes very often, but the temperature of the human body doesn't change. Which one shows the human body temperature correctly?
1. 36 °C                      2. 37 °C                      3. 25 °C                      4. 26 °C

02. Given below is a picture of an essential process for the continuity of living beings. What is the process.



1. growth                      2. movement  
 3. Nutrition                      4. reproduction

03. Students who have engaged in a field trip to observe environment saw the birds with different shapes of beaks.



Which of the following answer gives the most appropriate solution for the birds with different shapes of beaks.

1. It is because of their living environment.  
 2. It is because of their mode of nutrition.  
 3. According to their movements.  
 4. It is because of their chewing and swallowing nature of nutrition.

04. Which of the following flow chart is **incorrect**?

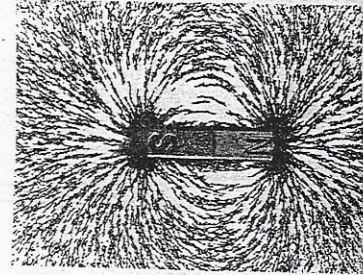
1. Water  $\xrightarrow[\text{heat}]{\text{Supplying}}$  Water vapours                      2. Ice  $\xrightarrow[\text{heat}]{\text{Supplying}}$  Water  
 3. Solid wax  $\xrightarrow[\text{heat}]{\text{Removing}}$  Liquid wax                      4. Liquid wax  $\xrightarrow[\text{heat}]{\text{Removing}}$  Solid wax

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05. The following picture shows how iron fillings are arranged according to a pattern.



The iron fillings fallen a little bit away from the magnet are seen in an irregular manner. According to above observation which characteristic of magnet can you understand.

1. Magnetic field
2. Magnetic power
3. Repulsion of magnet
4. Attraction of magnet

06. Out of the following, what is the physical property of wood charcoal.

1. Hardness
2. Luster
3. Brittleness
4. Malleability

07. Which of the following answers contain energy sources of bio mass only.

1. Sun, sea waves, geothermal energy.
2. Nuclear energy, fossil fuel, liquid petroleum gas.
3. Wind, flowing water, tidal waves.
4. Hay, saw dust, rotten food materials.

08. A, B and C are three statements given by three students about three substances.

A - We cannot see aquatic organisms clearly when we see through unclear water.

B - We cannot see light when we look through cardboard.

C - Light is transmitted well through a thin glass chimney lamp.

According to the above statements, decide to which group A,B,C substances belong in order.

- |                    |                 |                 |
|--------------------|-----------------|-----------------|
| 1. A – translucent | B – opaque      | C – transparent |
| 2. A – translucent | B – opaque      | C – nonluminous |
| 3. A – transparent | B – nonluminous | C – transparent |
| 4. A – opaque      | B – transparent | C – translucent |

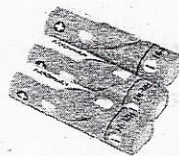
09.



A



B



C



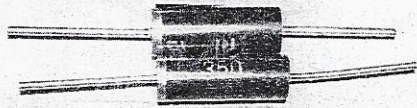
D

Out of the chemical cells represented by the above pictures. Which ones are considered as secondary cells.

1. A and B
2. C and D
3. A and D
4. B and C



10.



Select the correct response that shows the electronic equipment with its function correctly?

- 1. Light emitting diode - to observe current flow
- 2. Diode - to let the current flow in one direction
- 3. Resistance - to control the current flows.
- 4. Light dependent resistors - to reduce the resistant when light is fallen on to a circuit.

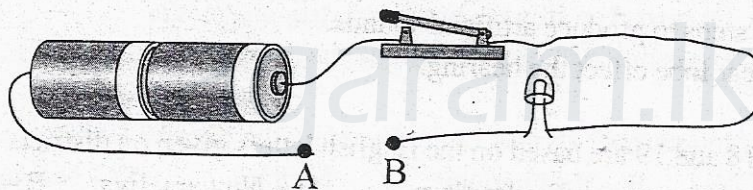
11. What is the equipment made using the expansion of liquids.

- 1. Stethoscope
- 2. Endoscope
- 3. Hydraulic jak
- 4. Mercury thermometer

12. Select the statement which doesn't show a natural disaster due to heat.

- 1. It decreases the level of water in ponds and lakes during drought seasons.
- 2. Forest fire occurs and spreads out rapidly in some regions.
- 3. Small islands are sunk due to the rise of sea water level.
- 4. Sliding down soil and stones in a higher area to a lower area.

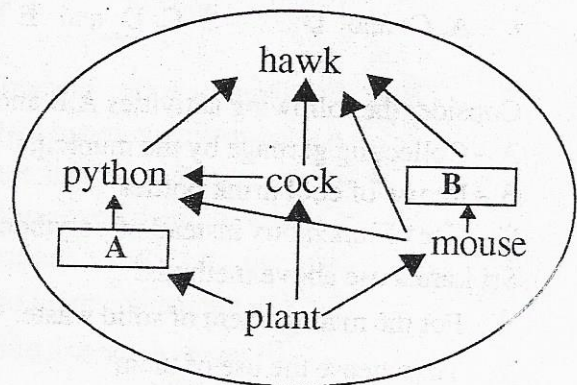
13. Which of the following electronic symbol is suitable to fix between A and B to reduce the flow of current.



- 1.
- 2.
- 3.
- 4.

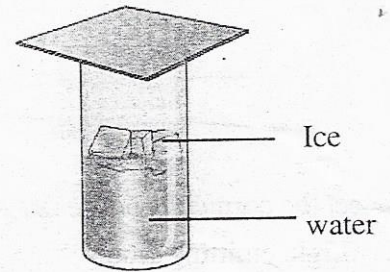
14. Select the correct Statement about the animals suitable for the blanks A and B respectively in the above given food web.

- 1. Both are herbivores
- 2. Carnivore and an omnivore
- 3. Herbivore and an carnivore
- 4. Omnivore and carnivore



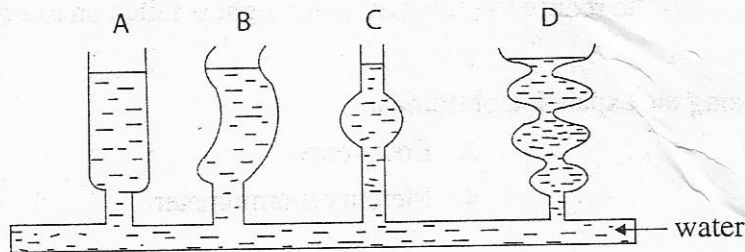


15. The above apparatus was created for an activity related to water for the grade 6 students. What is expected by them to observe through it?



1. To find out states of water
2. To test whether there is water vapour in the atmosphere.
3. To identify types of water
4. To test salinity of water

16.



A,B,C,D glass tubes contain 500ml of water each what is the characteristic of water which can be observed using the above set up.

1. To find out whether liquid doesn't have a definite shape.
2. To find out whether liquid has a definite volume.
3. To find out whether liquid has specific characteristics.
4. To find out whether liquid takes different shapes with different volume.

17. Which of the following statement is **incorrect**?

1. Ear lobes help to direct the sound into the ear.
2. Sound is produced due to vibrations.
3. Man has not taken steps to produce artificial sounds.
4. The shapes of the ear lobe effect the hearing.

• The question number 18 and 19 are based on the English letters given on districts.

A – Kegalla    B – Rathnapura    C – Puttlam    D – Nuwaraeliya    E – Hambantota

18. Which are the districts that record more about landslides

1. A, B and C
2. B, C and D
3. A, B and D
4. B, D and E

19. What are the districts which has wind power plants to generate electricity?

1. A, C and D
2. C, D and E
3. A, B and C
4. C, E and A

20. Consider the following activities A,B and C.

A – Collecting garbage by the municipal council as decaying and non-decaying garbage.

B – Re use of cool drink bottles.

C – Use of lunch box instead of polythene lunch sheets to take food.

Sri Lanka use above methods?

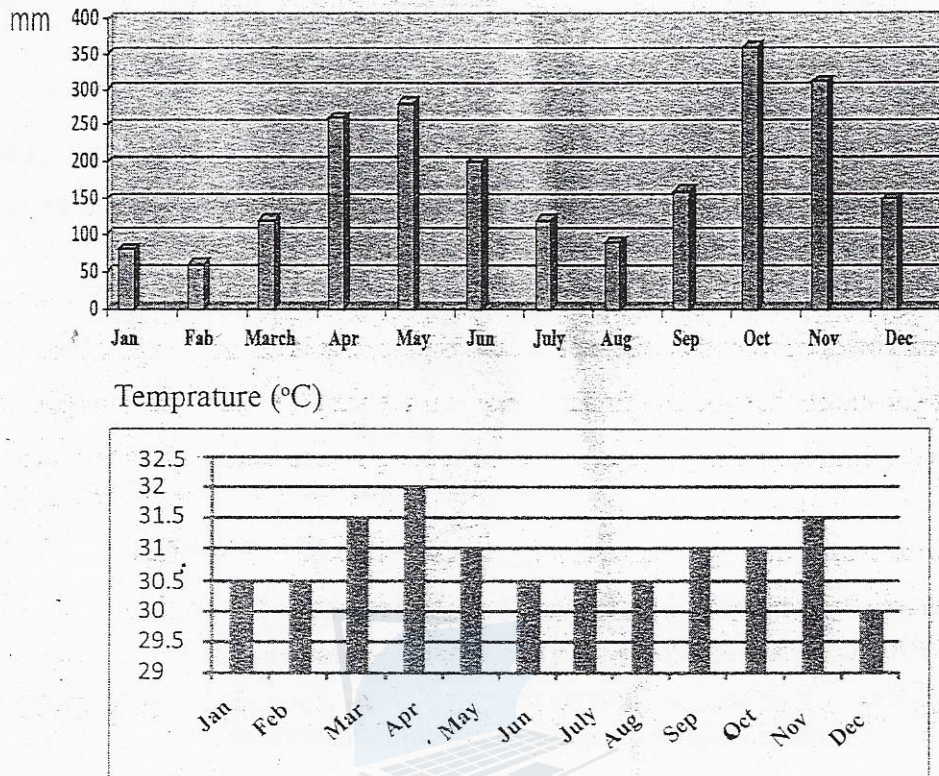
1. For the management of solid waste.
2. To reduce the use of them.
3. To increase the use of them
4. To beautify the urban areas

(20 x 2 = 40marks)



- Answer the first question and four other question.

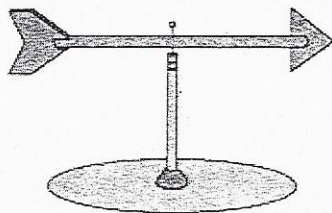
(01) (A) The following graph shows the rainfall and the temperature in Colombo according to the records of the Meteorological Department.



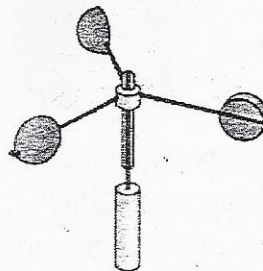
Study the graph and answer the following question.

- In which month does Colombo get the highest rainfall? (1 mark)
- What is the highest temperature in Colombo? (1 mark)
- When considering two graphs together, what can you say about the relationship of temperature and rainfall in July and in August? (2 mark)
- What is the equipment used to measure the amount of rainfall in Meteorological centers. (1 mark)

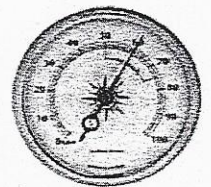
(v)



A



B



C

Name the A,B,C equipment

(3 marks)

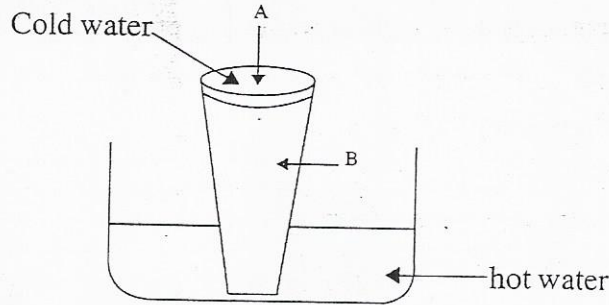
- Anemometer is used to measure the speed of the wind. If it takes 2 minutes to rotate ten times, what is the speed of the wind? (2 marks)



- (B) Select the most appropriate word given in the brackets.
- (i) Things with a mass and occupy space are known as ..... (sources, matter, energy)
  - (ii) A substance which is suitable to make wires ..... (rubber, aluminum, diamonds)
  - (iii) Water covers more than 70% of the earth surface but the percentage of water that can be consumed is ..... (1%, 0.01%, 0.1%)
  - (iv) Sounds that are ..... are known as noise (rhythmic, not rhythmic, music)
  - (v) The attraction is higher at the ..... of the magnet (north pole, south pole, poles)
  - (vi) Efficient bulbs like ..... and ..... can be used to reduce usage of electricity. (LED and CFL, LDR and LED)

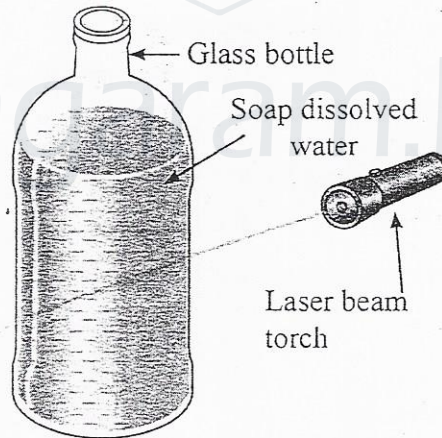
(6 marks)  
(Total 16 marks)

- (02) (A) As shown in the figure, glass A is stuck inside the glass B, The following set up is prepared to separate the two glasses easily?



- (i) Why is cold water put in to glass A to separate them? (1 mark)
- (ii) What is the use of keeping B glass in a hot water vessel? (1 mark)
- (iii) Is it easy or not easy to separate the two glasses, if you put hot water instead of cold water into glass A, and both glasses are kept in a cold water vessel. (1 mark)

(B)



- (i) What can you observe from the above set up? (1 mark)
- (ii) Write 2 natural sources of light? (1 mark)
- (iii) How do they use light for communication? (1 mark)
- (iv) Write an example where light is used to give signals. (1 mark)

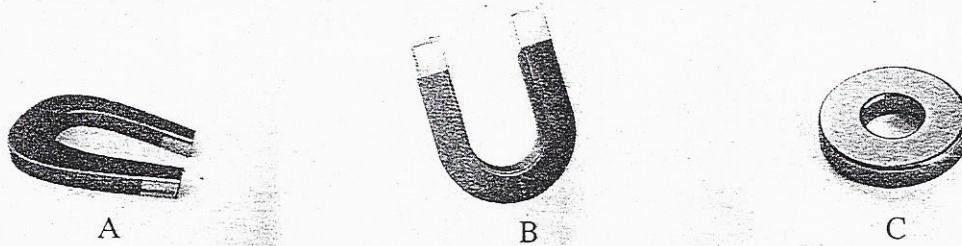
(C)

- (i) What is the organ in human body which senses sound? (1 mark)
- (ii) Write the method of producing sound in the following devices. (2 marks)
  - a) Sitar      b) Serpina      c) drum      d) flute
- (iii) Write a use of ear protectors. (1 mark)

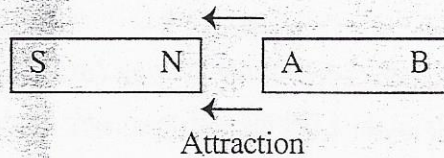
(Total 11 marks)

Grade 6 - Science - Western Province

(03) (A) The magnets differ from each other due to their shapes.



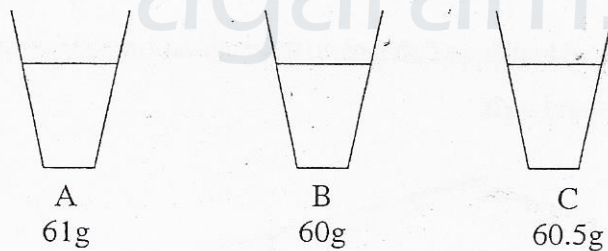
- (i) Identify above given magnets and name them. (1 1/2 marks)
- (ii) When a wrapped bar magnet, was brought near another magnet, they got attracted.



- (a) Name the pole A. (1 mark)
- (b) What can you observe when you brought N towards B. (1 mark)
- (iii) If you are provided with pins, how do you identify the most powerful magnet out of the two magnets given above? (1 mark)
- (iv) Write an example where we use magnets at home. (1 mark)

(B) Precipitation is a form of existence of water.

- (i) What are the other two ways in which water exists? (2 marks)
- (ii)

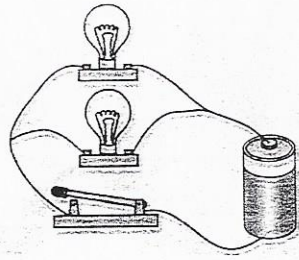


Masses are given in equal volumes of water to find out salinity in water.

- (a) When the mass of an equal volume is considered prepare A,B,C beakers in ascending order according to their salinity. (1 mark)
- (b) Based on the conclusion given above separate A, B, C solutions as fresh, marine and brackish water. (1 1/2 marks)
- (c) What is the most abundant salt in marine water? (1 mark)



(04) (A) (i) Draw the circuit given below using symbols



(2 marks)

(ii) Write a difference between LED and bulb.

(1 mark)

(B) If the statements are correct mark (✓) if not mark (X) within the brackets.

- (a) Rheostat is used to change the current flowing through a circuit. ( )
- (b) When the light falls on the LDR the resistance of it increases. ( )
- (c) Dry cell is a secondary cell. ( )
- (d) Sea waves and nuclear substances can be used to generate electricity. ( )

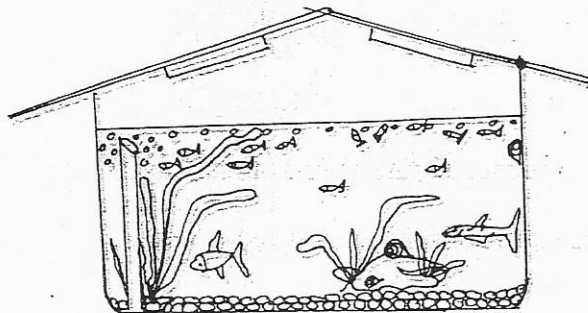
(4 marks)

(C) Complete the blanks with suitable words.

- (i) ..... can be seen as a characteristic of animals but not among plants.
- (ii) ..... is a substance that can be used to identify carbon dioxide in the laboratory.
- (iii) The ..... can be used to classify plants and animals.
- (iv) The most suitable equipment that can be used to observe birds on a tree is .....

(4 marks)

(05) (A) Students of grade six wanted to place a fish tank in their classroom to beautify it Answer the following questions based on it.



- (i) Name a non-living thing in that above environment. (1 mark)
- (ii) Mention an animal in this tank who is not a fish. (1 mark)
- (iii) One student observed that there are many fish close to the surface. Why can a large number of fish be observed close to the surface. (1 mark)



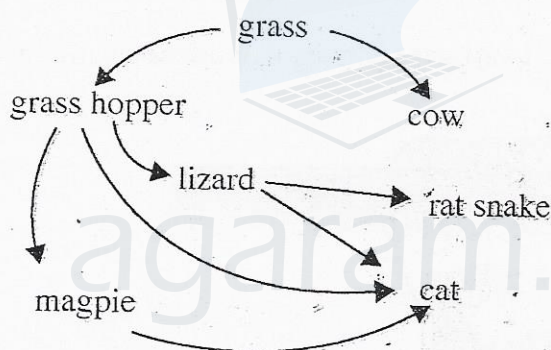
- (B) (i) What is the biological process done by fish using dissolved Oxygen gas in water. (1 mark)
- (ii) Plants in the fish tank are green in color what is the biological process done by plants during the day time. (1 mark)
- (iii) What is the gas used by plants to do the above biological process? (1 mark)
- (iv) There is a small pieces of stone layer at the bottom of the fish tank. How is that layer useful in purifying water in the tank? (1 mark)
- (v) (a) What is the type of locomotion in fish? (1/2 mark)
- (b) Write a characteristic of their body for the above mentioned locomotion. (1/2 mark)

(C) There are different properties in different solid materials.

The properties of solid matter should be considered when they are used. Mention the physical property of solids in following statements.

- (i) **Aluminum** is used to build doors and windows in buildings. (1 mark)
- (ii) **Powder** is spread out in a carom board. (1 mark)
- (iii) **Steel** is used to make mammary (1 mark)

(06) (A) The following chart shows the interactions among plants and animals in a piece of grassland.



- (i) Write a food chain with 3 links. (1 mark)
- (ii) (a) What is the name given for the above chart. (1 mark)
- (b) How does it differ from a food chain. (1 mark)
- (iii) Name a herbivore and a carnivore in that chart. (2 marks)
- (iv) Why are plants named as autotrophs? (1 mark)

(B) (i) Write a methods of conserving electrical energy during the situation given bellow.

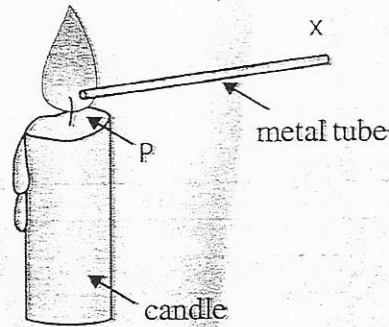
- (a) When using a computer
- (b) When using a refrigerator
- (c) When ironing clothes using an electrical iron. (3 marks)

(ii) Write an action one should take to prevent from accidents caused by electricity.

- (a) When main tenance is done in an electric circuit.
- (b) When fixing antennas. (2 marks)

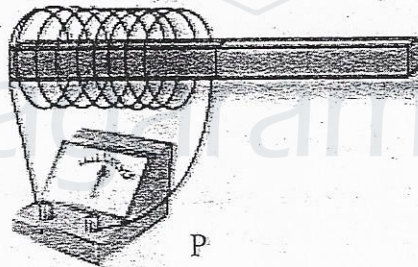


(07) (A) Given below is a drawing of an activity done to observe changes of state.



- (i) What is the state of P shown in the candle. (1 mark)
- (ii) What can you observe when a lighted match is placed at X. (1 mark)
- (iii) Write 2 substance that you can find at home in three states, solid liquid and gas. (2 marks)
- (iv) What is the final color that you can see when heating iron to make equipment in an iron work shop. (1 mark)
- (v) Write an alternative energy source that can be used. Instead of fossil fuel. (1 mark)
- (vi) Write an activity done by humans to increase the temperature of the earth. (1 mark)

(B) The group of students done by the activity to produce electricity by using metal coil is given below.



- (i) Name the apparatus 'P' (1 mark)
- (ii) What can you observe when the magnet moves forward and backward inside the coil. (1 mark)
- (iii) Write an instance electricity is generated in the same manner as above. (1 mark)
- (iv) Fossil fuel is burnt to produce heat in a power station. How is that heat used to operate turbines. (1 mark)