

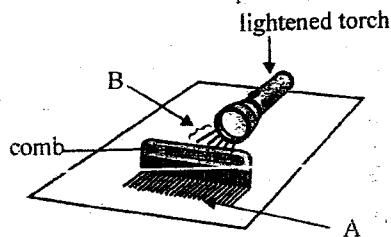
බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව மேல் மாகாணக் கல்வித் திணைக்களம் Department of Education - Western Province	
වර්ෂ අවසාන ඇගයීම ஆண்டிறுதி மதிப்பீடு - 2016 Year End Evaluation	
ශ්‍රේණිය தரம் } 06 Grade	විෂය பாடம் } Science Subject
පත්‍ර வினாத்தாள் } I, II Paper	කාලය காலம் } පැය 02 Time

Part - I

- * Answer all the questions in part - I
 * Underline the correct or most suitable answer.

- (01) A major difference between a jak tree and a cow is, only the jak tree,
 (1) does respiration (2) grows (3) being autotrophic (4) being heterotrophic
- (02) Which answer consists of only living organisms?
 (1) mushroom, green gram seeds, glass (2) mushroom, parrot, green gram seeds
 (3) mushroom, glass, bacteria (4) parrot, mushroom, glass
- (03) A liquid which was in one of the bottles in the kitchen had come to the state of solid during cold season. What can be that liquid?
 (1) coconut treacle (2) coconut oil (3) honey (4) vinegar
- (04) Which statement is correct regarding "matter"?
 (1) Things with out a mass and occupy space
 (2) Things without a mass and does not occupy space
 (3) Things with a mass and does not occupy space
 (4) Things with a mass and occupy space
- (05) All the animals in our environment, depend directly or indirectly on,
 (1) animals (2) plants
 (3) both plants and animals (4) non living things
- (06) Photosynthesis is a process carried out by green plants, which characteristic of organism does this process belong to?
 (1) respiration (2) growth (3) nutrition (4) reproduction
- (07) The ways in which water exist naturally are,
 (1) precipitation/ rain, surface water and ground water.
 (2) gravitational water, capillary water and ground water.
 (3) precipitation/rain, flowing water and ground water.
 (4) flowing water, gravitational water and capillary water.

(08)

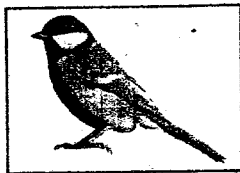


- (1) A and B to are light beams
(3) A is a light ray B is a light beam.

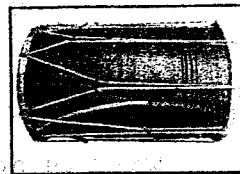
According to the above activity,

- (2) A and B are light rays.
(4) A is a light beam. B is a light ray.

(09)



A

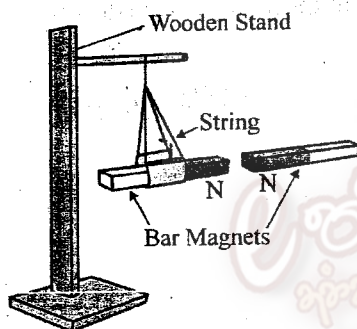


B

What is the correct answer, regarding the above two pictures?

- (1) A produces an artificial sound and B produces a natural sound
(2) A produces a natural sound and B produces an artificial sound
(3) Both A and B produce artificial sounds.
(4) Both A and B produce natural sounds.

(10)



What is your observation, when two bar magnets with poles marked, bring towards each other?

- (1) only an attraction is seen
(2) only a repulsion is seen.
(3) Neither an attraction nor a repulsion is seen
(4) First an attraction and later a repulsion.

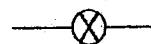
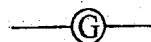
(11) An instrument that does not generate an electric current by moving a bar magnet inside a coil of wire is,

- (1) a bicycle dynamo
(2) a generator
(3) a wind-power station
(4) a simple cell

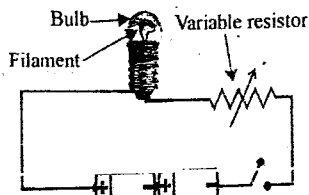
(12) Select the answer with the correct common standard symbol, used in electric appliances in circuits.

- use
- (1) To supply electricity
(2) To measure the electric current
(3) To amplify the electric current
(4) To identify a small flow of electric current

symbol



(13)



According to the above activity, when the electric current is increased, which answer shows the correct order of color change of the filament?

- (1) orange → red → yellow → white
(2) red → orange → yellow → white
(3) white → yellow → orange → red
(4) yellow → red → orange → white

(14) What do you mean by 'climate'?

- (1) Atmospheric condition at a specified place during a long time period.
(2) Atmospheric condition at different places that prevails for a long time.
(3) A temperature situation that prevails during a definite time.
(4) Definite atmospheric pressure condition

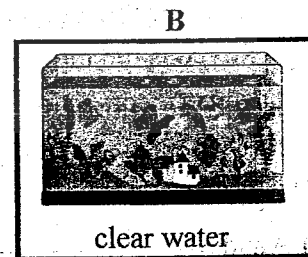
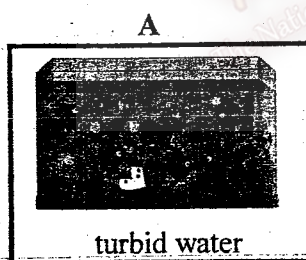
(15) What is used in the endoscope, which is used to lighten the interior of the body?

- (1) optic fibers (2) Laser rays (3) X rays (4) Ultra violet rays

(16) Select the **incorrect** statement from the following statements.

- (1) An electric iron generates heat from electricity
(2) Before fixing a rim to a cart wheel, it is heated on a fire
(3) A metal lid fixed tightly to a bottle, can be easily removed by dipping it in cold water.
(4) When the bulb of a thermometer is dipped into warm water, the level of mercury column goes up.

(17) A and B are two fish tanks. What is your observation regarding the fish in these two tanks



- (1) Fish in both A and B tanks can be clearly observed as water is transparent in both
(2) Fish in both A and B tanks cannot be clearly observed as water is opaque in both
(3) Fish in tank A can be clearly observed as its water is transparent and fish in tank B cannot be clearly observed as its water is opaque.
(4) Fish in tank A cannot be clearly observed, as its water is translucent, and fish in tank B can be clearly observed as water its is transparent.

- (18) Some ice cubes were put into a glass with water and it was closed with a piece of cardboard. A student recorded his observation and his conclusion.

Observation	Conclusion
Water vapour on the outer surface of the glass.	There is water vapour in the atmosphere.

Out of the above mentioned statements,

- (1) Only the observation is correct
- (2) Only the conclusion is correct
- (3) Both the observation and conclusion are correct
- (4) Both the observation and conclusion are incorrect

- (19) The following table shows some climatic data obtained for three days in March in 2013, from the city of Colombo.

Date	Highest temperature °C	Lowest temperature °C	Rainfall mm
(1)	31.6	27.8	0
(2)	31.3	26.4	20.35
(3)	30.7	25.2	18.35

Which days had the highest temperature, lowest temperature and highest rainfall respectively?

- (1) 1,3,2 (2) 3,1,2 (3) 2,1,3 (4) 1,2,3

- (20) Several tasks done by National Building Research Organization are mentioned below

- A - Collecting data about areas where landslides occur in Sri Lanka
- B - Giving instructions to prevent landslides
- C - Re-constructing lands that have already faced with land slides.

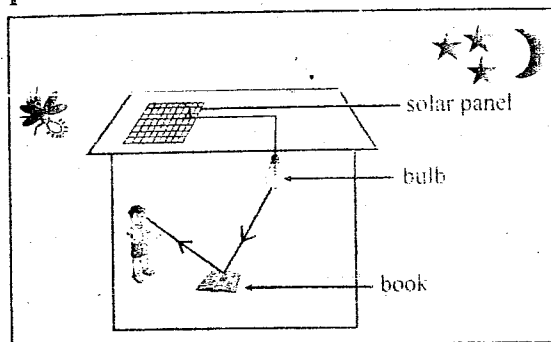
Which statement is correct from the above?

- (1) A only
- (2) B only
- (3) A and B only
- (4) A, B and C

Part - II

Answer the first question and four more questions.

(01)



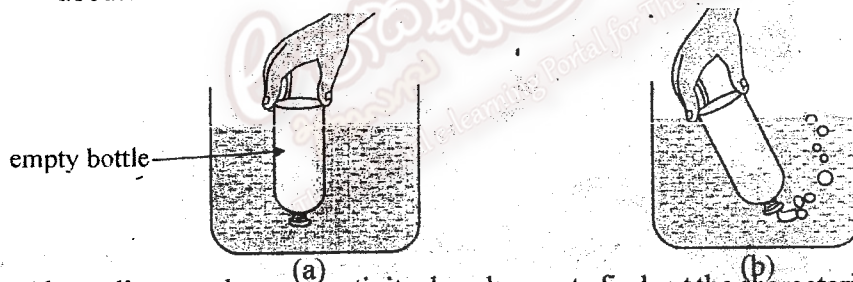
A. In this picture, there is a solar panel fixed on top of the roof. The electricity produced by it can be stored in a battery and used later.

- (i) How is solar panel made?
- (ii) For which purpose is this used?
- (iii) Above arrows show how the student can see the book. Write two factors that must be satisfied to see an object.
- (iv) Write one way of minimizing the amount of current used in your home.
- (v) What can be named as sources of light, from the objects in the picture?
- (vi) Our main natural source of heat is the sun. Name two other sources, of heat energy, other than the sun

B. (i) Draw the diagram of how you are going to make a heating coil, if you are provided with a thin insulated copper wire, two dry cells, and a pencil

- (ii) What is your observation, when the two ends of the wire are connected to the cells, for about 2 minutes?

C.



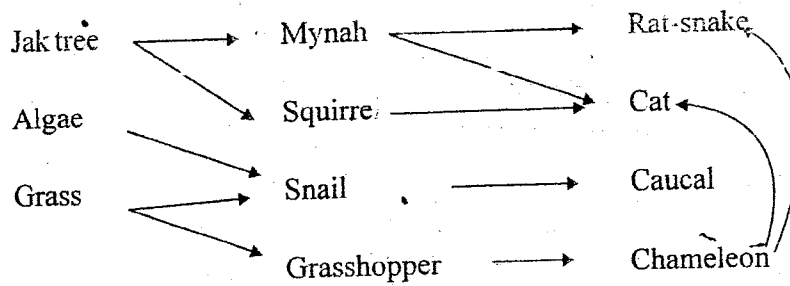
Above diagram shows an activity done by you to find out the characteristic of gases.

- (i) What is the reason for water not entering the bottle, when the bottle is in the position as in figure (a)?
- (ii) What came as bubbles, when the bottle is in the position as shown in figure (b)?
- (iii) What is your conclusion, by doing this activity?

(02) A. Student bubbled exhaled air into a colourless calcium hydroxide solution

- (i) What is your observation in this activity?
- (ii) What is the reason for your observation?
- (iii) Write one example for a movement of plants?
- (iv) What is the name of the instrument you used to observe the micro-organisms in the water taken from a pond?

B. Given below is a food web near a jak tree and its surrounding in a garden.



- Build up one food chain that can be seen in the above food web
- Name the producer of the above written food chain.
- Why is every link in a food chain important?
- Categorize the following animals according to their feeding habits (modes of nutrition). **Deer, Pig, Black bear, Rat-snake, Caterpillar, Leopard**

Herbivores	Carnivores	Omnivores

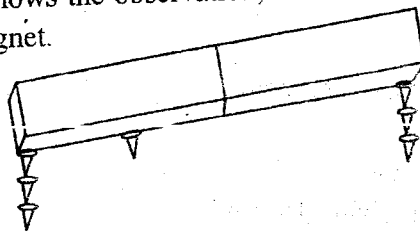
- Some carnivorous animals have become omnivores by living with human beings. Give an example for such an animal

(03)



- Above figure shows how a water body has become polluted because of addition of different types of waste materials and impure water in to it.
 - Write two methods of water pollution, selecting from the above picture.
 - Water covers more than 70% of the earth surface. What is the percentage of water that can be consumed out of it?
 - What is called salinity of water?
 - Write how water can be further categorized based on salinity.

- B. Following figure shows the observation, when some small iron nails were brought closer to a bar magnet.

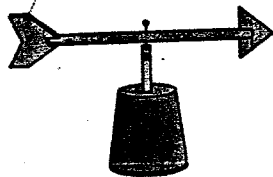


- (i) What is the reason for this observation?
 - (ii) How do you name the place where the higher number of iron nails are attracted in the bar magnet.
 - (iii) Write the name of an instrument you can use to find the place in your answer in B (ii)
 - (iv) Draw the shape of a horse shoe magnet.
- (04) We have to do different types of work in our day today life.
- (i) What is defined as the ability to do a work?
 - (ii) Which energy type is used in the saw dust stove or 'kudu lipa'?
 - (iii) Write one reason for rapidly increasing the use of fossil fuels.
 - (iv) Write two ways in minimizing electricity consumption in refrigerators.
 - (v) Write two types of energy efficient bulbs
 - (vi) What is meant by electric resistance?
 - (vii) What is the Standard International unit of measuring resistance.?
 - (viii) Draw the common standard symbols for the following electronic appliances.
 - (a) Light Emitting Diode
 - (b) Resistor
- (05) A. Student who went to the market to buy some vegetables, heard the noises of sellers. When he was walking, he heard the sound of a flute playing by a man.
- (i) In the above incident, what is the
 - (a) unrhythmic sound?
 - (b) rhythmic sound?
 - (ii) What are the names used for,
 - (a) unrhythmic sound
 - (b) rhythmic sound respectively.

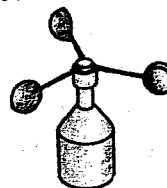
B. Following is an announcement telecast by television

"Showers will occur in Northern and Eastern provinces. Thunder showers will occur in Western, Southern, and Uva provinces during the evening"

- (i) Write one factor that determines the weather, according to the above announcement.
- (ii) What is the difference between weather and climate?



A



B

Grade 06 - Science - Western Province

- (iii) From the above two instruments, what is used
 (a) to measure the speed of wind?
 (b) to find out the direction of wind?
 (iv) From which direction is wind blowing if arrow head is pointed to East in instrument A?
 (v) Write one natural disaster that occurs because of climatic changes and one action you should take in such a situation.

(06)



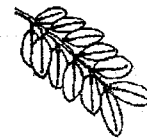
Chillies



Hibiscus
(shoe flower)



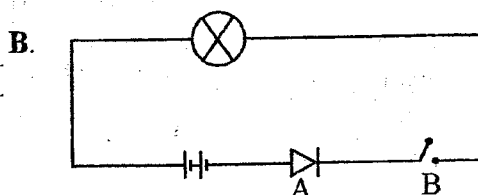
Mimosa
(Nidikumba)



Mara

- (i) Classify the above plant leaves using a suitable dichotomous key.
 (ii) Select a plant species out of the above plants that is suitable to get the shade along the roads.
 (iii) Write the name of one plant that can be used as bio mass and write one instance it is useful?
 (iv) What is the characteristic of living organisms that is essential for the existence of living organisms?
 (v) Mara and Mimosa (Nidikumba) grow in terrestrial environment. Name two other environments where plants can grow.
- (07) A. Complete the table with regarding the physical properties and applications of given solids.

Solid	Physical property	Application
Glass	transparent	a.
Clay	b.	making pots
Rubber	c.	marking balloons
Copper wires	conductor	d.
Iron	e.	manufacturing iron sheets



- (i) Name A and B in the above circuit
 (ii) What is the major use of A?
 (iii) Is the current flowing in this circuit from direction A to B or B to A?
 (iv) How will be the brightness of the bulb changed if we remove A and fix a resistor there?