

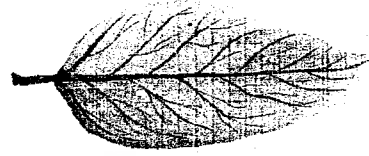
බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව மேல் பாகாணத் தலைநகர் Department of Education - Western Province			
වර්ෂ අවසාන ඇගයීම ஆண்டிறுதி மதிப்பீடு - 2016 Year End Evaluation			
ශ්‍රේණිය தரம் } 07 Grade	විෂය பாடம் } Science Subject	පත්‍ර வினாத்தாள் } I, II Paper	කාලය காலம் } 02 hours Time

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

Part I

(01) Which statement is correct regarding the leaf in the diagram?

- (1) A monocotyledonous plant leaf
- (2) A dicotyledonous plant leaf
- (3) Has a parallel venation
- (4) Cannot say clearly



(02) What is the major function of plant roots?

- (1) bearing flowers and fruits
- (2) photosynthesis
- (3) respiration
- (4) absorption of water and minerals which are dissolved in water

(03) For which organism, water is important as a respiratory medium?

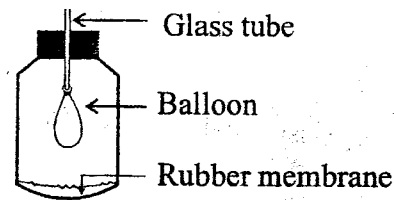
- (1) water snake
- (2) tortoise
- (3) fish
- (4) lotus plant

(04) Which part of the compound microscope is used to adjust the body tube to get a clear image of the specimen?

- (1) coarse adjustment
- (2) mirror
- (3) diaphragm
- (4) eyepiece

(05) In this set up, what will be your observation when the rubber membrane is pushed into the bottle?

- (1) Nothing changes in the balloon
- (2) Balloon expands.
- (3) Balloon contracts.
- (4) air goes out from the glass tube.



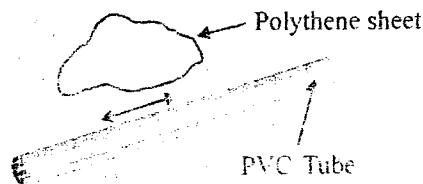
(06) Which food contain abundant in Vitamin A.

- (1) B
- (2) A
- (3) C
- (4) D

(07) A child cut a full boiled egg across from top to bottom to explain the inner parts of the earth. Here the egg shell demonstrates which part of the earth?

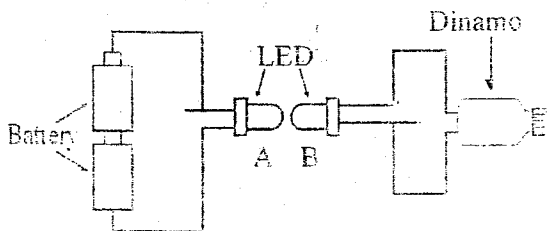
- (1) core
- (2) mantle
- (3) crust
- (4) outer core

(08) What does not happen later when a PVC pipe is rubbed with a polythene sheet?



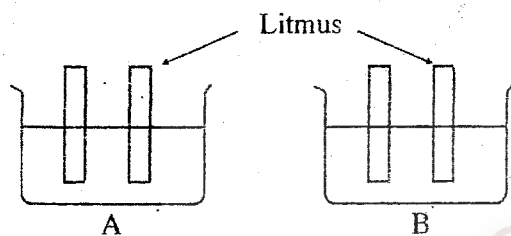
- (1) gets cleaned
- (2) an electric current is generated
- (3) gets heated
- (4) small pieces of paper get attracted

(09) This A and B are LED shown in the given diagram, according to which LED illuminates?



- (1) Both LED A and LED B illuminate.
- (2) LED A illuminates LED B does not illuminate.
- (3) LED A does not illuminate LED B illuminates.
- (4) Both A and B LED do not illuminate.

(10) Two pieces of blue and red litmus were put into two liquids in the laboratory. According to this, your conclusion is,



- (1) A is an acid. B is a base.
- (2) A is a base. B is an acid.
- (3) A is an acid. B is an acid.
- (4) A is a base. B is a base.

blue litmus turns to red	red litmus turns to blue
red litmus does not change the colour.	blue litmus does not change the colour

(11) Which equipment transfer chemical energy into electrical energy?

- (1) dynamo
- (2) electric bell
- (3) turbine
- (4) dry cell

(12) The image formed when an object is observed from the side mirrors of a vehicle is,

- (1) bigger in size
- (2) inverted
- (3) seen in front of the mirror
- (4) laterally inverted

(13) When observing tissues, which type of tissue is observe according to diagram given below

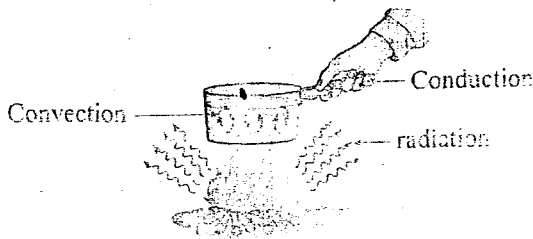


- (1) cardiac muscle tissue
- (2) blood tissue
- (3) nervous tissue
- (4) epidermal tissue

(14) Which energy type lasts forever in the biosphere?

- (1) mineral oil
- (2) coal
- (3) firewood
- (4) petrol

(15) Why does your hand get burnt, when you put a pan on a fire



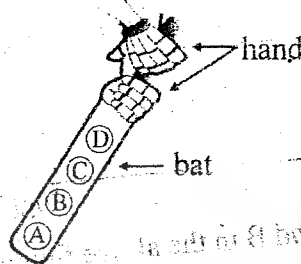
- (1) Because of the heat of the pan
- (2) Because of heat radiation
- (3) Because of convection currents
- (4) Because of heat conduction

(16) Which device is used to store electric chargers.

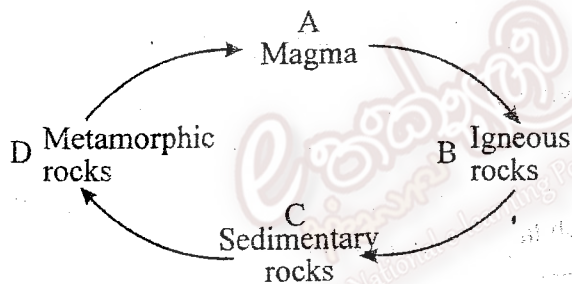
- (1) capacitor
- (2) Diode
- (3) Dry Cell
- (4) Resister

(17) At which place of this cricket bat is the highest force applied on, when you hit a ball with the same force.

- (1) B
- (2) A
- (3) C
- (4) D

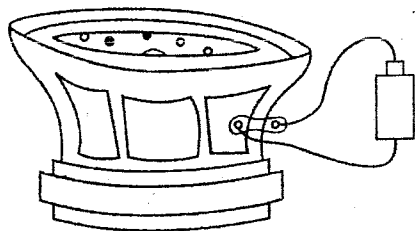


(18) In which state of the rock cycle, has the extreme temperature?



- (1) A
- (2) B
- (3) C
- (4) D

(19) What is an instance in which sound is produced by the speaker by supplying electricity using a dry cell?



- (1) When only the dry cells are connected
- (2) When only the dry cells are disconnected
- (3) At the time of dry cell is connected
- (4) At the time of dry cell is connected and disconnected

(20) Which statement is correct out of this?

- A - Black surfaces absorb radiated heat very fast
 - B - Black surfaces emit heat very fast
 - C - Polished shining surfaces emit heat very fast
- (1) A and C (2) B and C (3) A and B

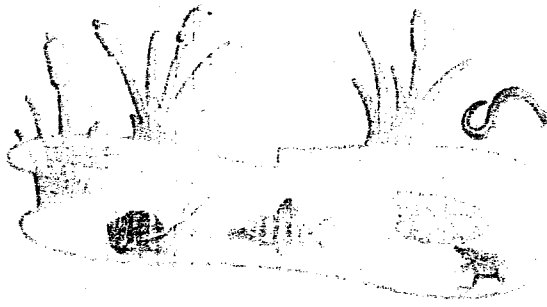
(4) All A, B and C

Grade 07 - Science - Western Province

Part II

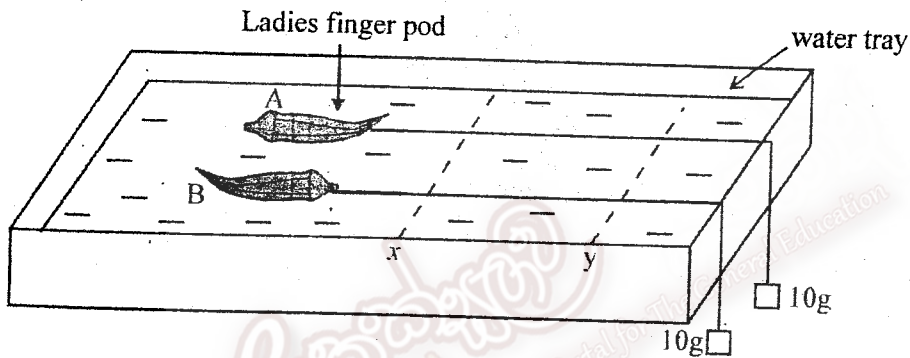
ANSWER THE FIRST QUESTION AND FOUR MORE QUESTIONS.

(01) A Given below is a picture of pond environment.



- (i) Classify the four animals in this pond using a dichotomous key.
- (ii) Name a vertebrate and an invertebrate in this pond environment
- (iii) What is the adaptation shown by the frog to live in the above environment.

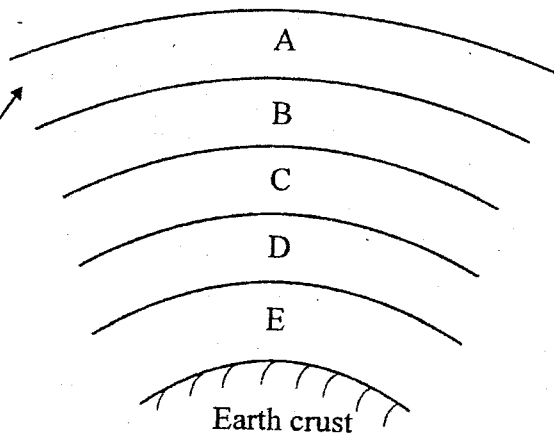
B



- (i) When two pods of ladies fingers A and B in the above figure are kept on water and released simultaneously (at the same time), which pod of ladies finger is going faster from X to Y.
- (ii) Write another strategy you can do to increase the speed from X to Y of two pods of ladies fingers?

(i) Given below are the five layers of the atmosphere. Match each layer with the correct figure.

- (a) Troposphere
- (b) Stratosphere
- (c) Mesosphere
- (d) Thermosphere
- (e) Exosphere



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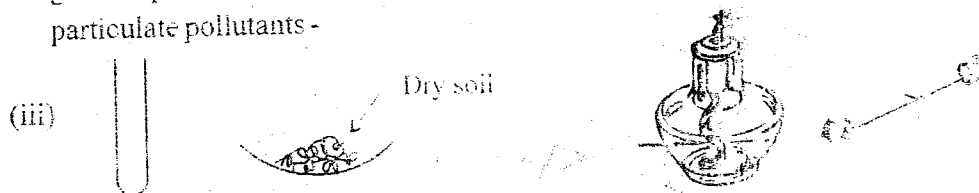
(ii) These substances are released to the atmosphere from an industry which cause air pollution.

(Carbon particles, Carbon monoxide, Sulphur dioxide, unburnt fuel droplets)

Divide these substances into two groups as gaseous pollutants and particulate pollutants

gaseous pollutants -

particulate pollutants -



The above apparatus were used to show that there is water in the soil. in the activity done in the laboratory.

Draw the set up of the activity you did, using the above apparatus.

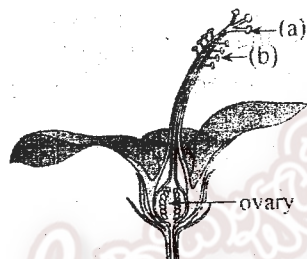
(iv) Name as 'X' where the water droplets are deposited on the walls of the test tube.

(v) (a) Write the name of the chemical, you can use in the laboratory to identify that liquid droplets formed inside the test tube are water.

(b) What is your observation?

(vi) What is the use of a test tube holder in this set up?

(02)(A)



The above diagram shows a longitudinal section of a flower of a dicot plant.

(i) Name (a) and (b)

(B)(i) Rolls you bought from the canteen were wrapped up in a white paper. Write one observation on the wrapping paper after some time.

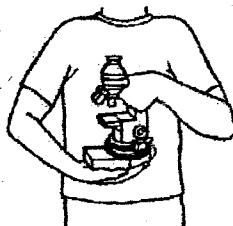
(ii) Which nutrient was the cause for that observation?

(iii) What is the function of teeth in your mouth cavity while taking food?

(iv) You are provided with a polythene sac, a thin saline tube, rubber bands, a wide rubber type and a thin rubber type. Out of these, what can you use to demonstrate the stomach, when you are making a model of the human digestive system.

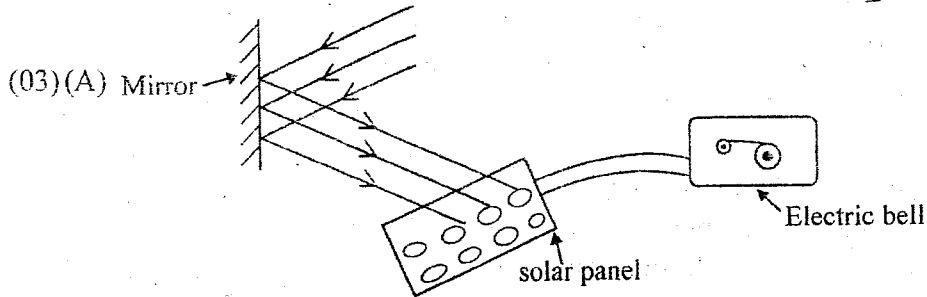
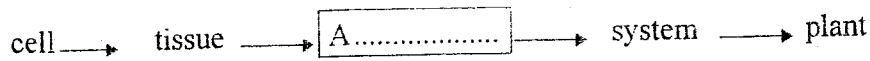
(v) What happens to the food residues which is no more digestion?

(C)



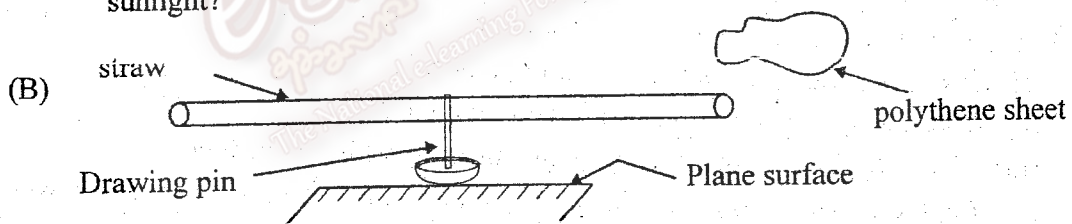
(i) Write one safety measure a student has considered when carrying the microscope according to the given diagram.

- (ii) Write one factor, you should consider, if you are not going to use the microscope for a long period of time.
- (iii) It is written X4 on a simple microscope. What is the magnification of the object, if the object is 10 m.m ?
- (iv) What is level 'A' in the level of organizations given below?

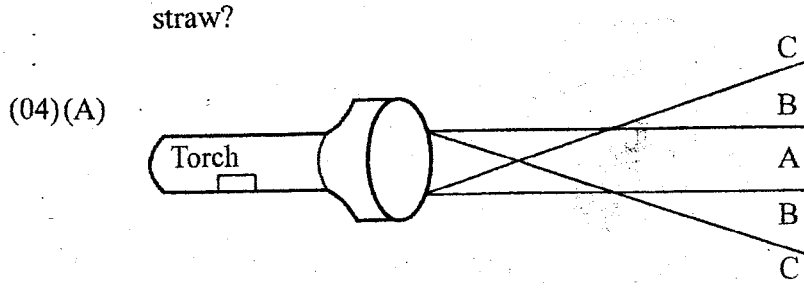


The above electric bell operates when the equipment are set up as the diagram.

- (i) Name two types of energy you can identify in this set up.
- (ii) Why does a mirror used in this setup?
- (iii) Write one strategy you can do to prevent the functioning of the electric bell.
- (iv) Write one advantage and a disadvantage in using solar energy.
- (v) Write one change in the solar cell, when it is exposed to the sunlight for sometime.
- (vi) Write another method of operating the electric bell, when there is no sunlight?

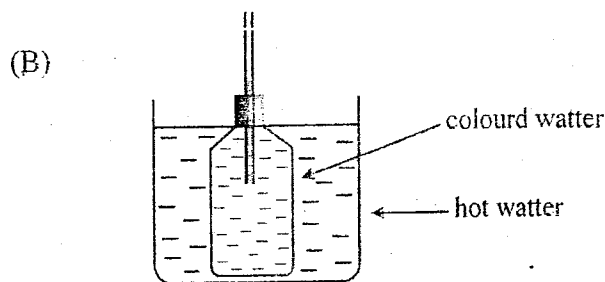


- (i) What should be done to charge the straw?
- (ii) What is called the charges generated like this?
- (iii) What happens after charging, the polythene sheet, if brought closer it to the straw?



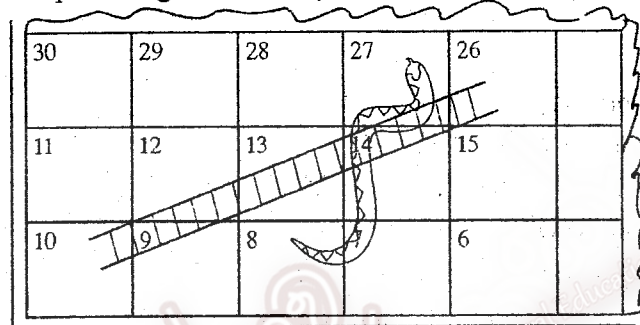
- (i) Here, what is the brightest area?
- (ii) Name umbra and penumbra using letters A and B.

- (iii) Name an instrument which is used to produce sound by vibrating membrane.
 (iv) It is possible to predict the arrival of train by keep ear on the rail way track give reason for this.



- (i) What is your observation in this?
 (ii) Why is coloured water used in this?
 (iii) Write one method you can do to fix the lid without trapping air bubbles in the bottle.

(C) Given below is a part of a game board. (Snakes and ladders)



- (i) Find the number of squares he should pass to go from 10 to 26.
 (ii) What is the shortest distance he should use to go from 10 to 26?
 (iii) What is called above mentioned distance (path) in motion?
- (05)(A) Nimali prepared a drink from boiled shoe flower water. As soon as she added lime juice into it, the colour changed.
- (i) As what, boiled shoe flower waters function in this?
 (ii) Write one another substance, like this you can find from the natural environment.
 (iii) It was seen that the label of a liquid bottle in the laboratory had removed. Write the names of two substances you can use in the laboratory to identify whether this solution is an acid or a base.

(B) You have seen stones put at the bottom of fish tanks for beauty.

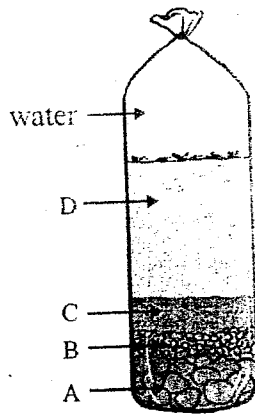


The above two diagrams show such a mineral and a rock.

- (i) Write one difference between a mineral and a rock.
 (ii) Identify the mineral and the rock in the above diagram.

- (iii) What is the reason for bursting a glass, when hot water is added into it?
- (iv) At night, the fish in a fish tank were seen coming to the top of the tank. What is the reason for that?

(06)(A)(i) A soil sample was mixed with water, shook well and kept to settle. Write these components in the relevant place in the diagram.
(clay, silt, coarse sand, gravel)



- (ii) What are the components on the surface of the water?
- (iii) Write one difference in the composition of clayey soil and sandy soil.
- (iv) Write one environmental problem that can happen because of soil erosion.

- (B)(i) What is the energy type in flowing water?
- (ii) Write two instances where this type of energy is being used.
- (iii) Water is used to dissolve paints. Which property of water is used in this situation.
- (C)(i) Name two organisms that help to increase the fertility of the soil.
- (ii) Write one factor, added to the soil by rolling and digging

(07)(A) Fill in the blanks, by selecting the suitable words.

(Newton, metre, vibration, thermometer, concave mirror)

- (i) is the standard international unit in measuring distance.
- (ii) is essential to identify a disease, initially.
- (iii) The standard international unit of force is
- (iv) Sound is generated due to
- (v) can be used to converge light rays.

(B) Mark (✓) if the statements are correct and mark (✗) if the statements are wrong.

- (i) Coconut sambol is a balanced diet. ()
- (ii) Dry cell is a chemical cell. ()
- (iii) House hold electric supply is a direct current. ()
- (iv) O_2 is the most abundant gas in the atmosphere. ()
- (v) Earthquakes are results of movement of tectonic plates. ()
- (vi) Sea breeze is occurred in during the day time. ()