

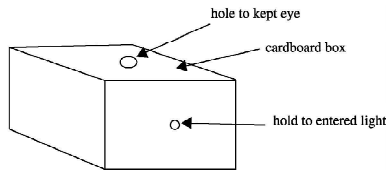
(07) The most suitable energy source can be used in hill top is,

1. Wind
2. Flowing water
3. Tidal wave
4. Fossil fuel

(08) The fossil fuel in gaseous state is,

1. LP gas
2. Petrol
3. Coal
4. Bio gas

(09) The conclusion of the given setup used to demonstrate needed factors for the vision is,

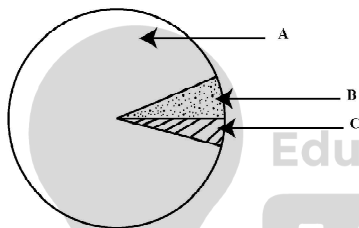


1. Eye is needed to vision
2. Light is needed to vision
3. Object is needed to vision
4. Hole is needed to vision

(10) Select the non luminous object,

1. Sun
2. Moon
3. Lighted candle
4. Lighted blub

(11) Given below is a pie chart which represented the amount of water on the Earth. Which letters given the amount of water in seas and water that can be consumed in respectively.



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

(12) What is the Standard International unit of measuring temperature?

1. Kelvin.
2. Centigrade.
3. Farenheit.
4. Celsius.

(13) The factor obtain from the soil to photosynthesis is,

1. Sunlight
2. Carbon Dioxide
3. Water
4. Chlorophyll

(14) Select the correct statement,

1. Loud noises are not harmful for ears.
2. Harmonium produces sound by vibrating strings.
3. Ear protectors are wearing to protect from animals.
4. Sound is produce by vibrations.

(15) What is the substance can be separated by using a magnet?

1. Brass filings.
2. Aluminum filings.
3. Steel filings.
4. Copper filings.

(16) The instrument produced by a pivoted magnet, that can be move freely is,

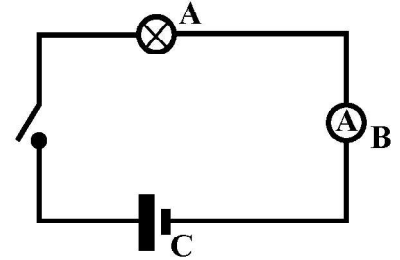
1. Clinical thermometer.
2. Barometer.
3. Compass.
4. Wind vane.

(17) Select the correct chemical cell type and example for it,

Chemical cell type	Example
1. Primary cell -	Dry cell
2. Primary cell -	Mobile phone battery
3. Secondary cell	Solar cell
4. Secondary cell -	Watch battery

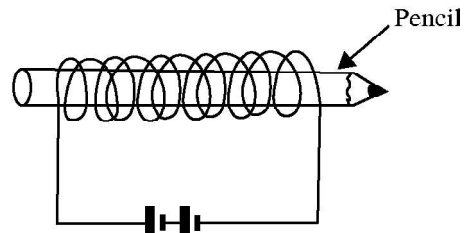
(18) Identify the symbols in the circuit shown as A, B, C in respectively,

1. Ammeter, Bulb, Dry cell.
2. Bulb, Ammeter, Dry cell.
3. Dry cell, Bulb, Ammeter
4. Bulb, Dry cell, Ammeter



(19) Given figure shows a thin wire winded around the pencil and connected to the cells. What is the expected observation,

1. Melting of the wire.
2. Heating of the wire.
3. Emitting light from the wire.
4. Increasing length of the coil.



(20) The instance of using heat energy generated due to rubbing,

1. Erase of letters by an eraser
2. Lighting of a match stick
3. Painting by a brush
4. Ironing of dresses

(21) Due to rising of the temperature of the Earth, it affected,

1. For melting of glaciers.
2. For flooding.
3. For land sliding.
4. For heavy rains.

(22) The knowledge about the expansion cannot be used,

1. To remove a tied metal lid from a bottle.
2. To fixing the rim of the wheel of a cart.
3. To fixing of rails.
4. To making an iron gate.

(23) Who are the organism produce foods to all the living beings on the Earth?

1. By green plants.
2. By small animals.
3. By suckers.
4. By man.

(24) Select the correct answer.

1. Food chain is created by inter connections of several food webs.
2. The second link of a food chain is always a carnivore.
3. The solar energy transferred through a food chain.
4. The producer of a food chain is always a carnivore.

(25) If an anemometer takes 4 minutes for 20 turns. what is the speed of the anemometer?

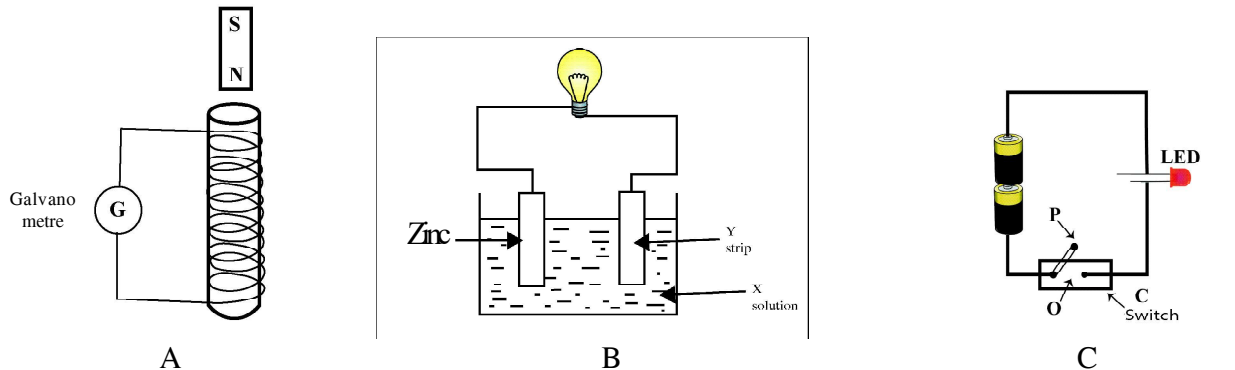
1. $20/4$ turns per minute.
2. $4/20$ turns per minute.
3. $20/2$ turns per minute.
4. $2/20$ turns per minute.

Part II

Instructions:

- 1st question is compulsory.
- Answer 4 questions out of 6 questions.
- Use another sheet for write your answers.

(01) Given below are three set-ups prepared by three groups of students in grade 6. It is labeled as A B and C.



(A) Write expected observations related to the set-up A in the table given below.

Activity	Observation in galvanometre
(i) Allow to fall bar magnet through the plastic tube. (1 Mark)
(ii) Insert the magnet in to the tube and close the two ends with hands. Moving the tube backward and forward. (1 Mark)

(B) Set up B shows a rough sketch of a simple cell.

- Name X solution and Y strip respectively. (2 Marks)
- Write observation can be seen near at Zinc sheet and Y strip. (2 Marks)
- What is the observation of bulb after few minutes when it connected? (1 Mark)

(C) Set up C shows the circuit with two dry cells, one LED and a switch.

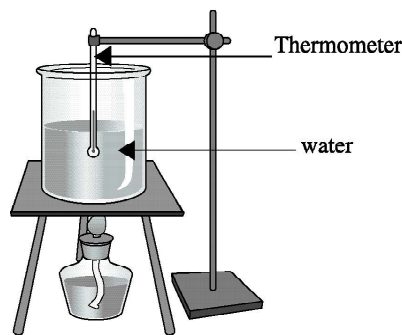
- Draw a circuit diagram using standard symbols. (2 Marks)
- A switch connected to the circuit consist with O and P parts. Write two different physical properties can be seen in O and P respectively. (2 Marks)

(iii) Write a difference between a bulb and LED.

(1 Marks)

(12 Total marks)

(02) (A) Given below is a set up used in laboratory to observe increase of temperature.



(i) What is the observation can be obtained in thermometer when spirit lamp place under the beaker. (1 Mark)

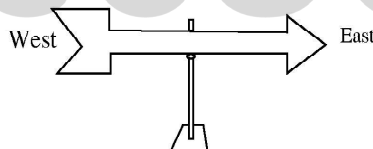
(ii) What is the thermometer reading value when water started to boil. (2 Mark)

(iii) Write the change the state of water while it boiled. (2 Marks)

(iv) What is the type of energy can be transferred from spirit lamp to water in beaker. (1 Mark)

(v) Write a place that liquid expansion occurred in the set up. (1 Mark)

(B) Wind vane is used to find out the direction of the wind. Given below is an instance of a wind vane pointed to the direction as,



(i) Find the direction of the wind blow in above instance. (1 Mark)

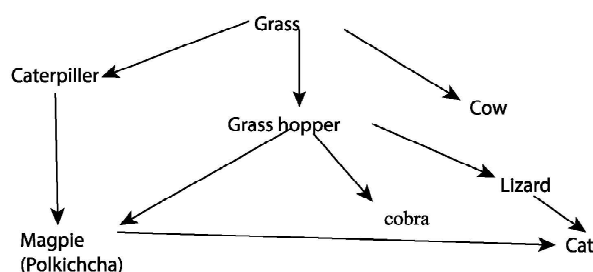
(ii) If you have assigned to prepare a wind vane, write four raw materials required for it. (1 Mark)

(iii) Somebody says a humidity can be reduced due to wind. What is known as humidity? (1 Mark)

(iv) What is the natural disaster can be occurred due to pressure depression is created and the air around that place is blown at a very high speed towards the pressure depression. (1 Mark)

(12 Total marks)

(03) (A) Given below is a food web which a connection that can be seen within organisms for foods.



- (i) Name two herbivorous animals from the above food web. (2 Marks)
- (ii) Write a food chain with three links from the above food web. (2 Marks)
- (iii) Which group of organism can be affected directly, if caterpillars and grasshoppers removed from the environment. (2 Mark)
- (iv) Name the process of producing food in grass. (1 Mark)

(B) Given below is a part of a nature diary of grade 6 student.

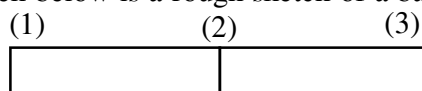
Date	Observation.
Monday	Colourless lime water turn into milky when bubbled the exhale air.
Tuesday	Whe touch the mimosa leaves, it shows sleeping movements.
Wednesday	Plotted long bean plant kept inside of the room bended towards the window.
Thursday	While younger brother is sleeping his chest and stomach move up and down.

- (i) Name the days he observes the movement of organisms. (1 Mark)
 - (ii) What is the conclusion of the observation on Monday? (1 Mark)
 - (iii) What is the characteristic of organism related to the observation on Thursday? (1 Mark)
 - (iv) Name two plants which shows sleeping movements at night. (2 Marks)
- (12 marks)

(04) (A) (i) Select the most suitable substances that can be used to produce electromagnet from the given list.

(Brass nail, Piece of iron, Copper wire, hacksaw blade, aluminum strip) (2 Marks)

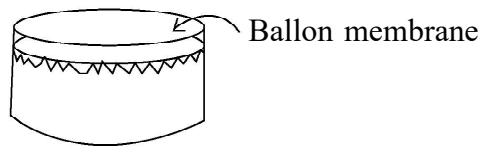
(ii) Given below is a rough sketch of a bar magnet.



- (a) What are the places which attract more pins given as 1, 2, and 3 when it places over the pins? (1 Mark)
- (b) What do you call above places? (1 Mark)
- (c) When this magnet bring closer to the compass, N end of the compass attracted to the the 3rd end of the magnet, Name (1) and (3) end of above magnet. (2 Marks)

(B) Given below are some sounds can be heard from the environment. (Sound of a guitar, Barking of dogs, Sounds of blowing wind, Sound of a tractor, Sound of a vehical horn)

- (i) Write two artificial sounds from above list. (2 Mark)
- (ii) Write an example for a music and a noise from above list. (1 Mark)
- (iii) Explain what is a noise. (1 Mark)
- (iv) Given below is an instrument made by using rubber membrane and a tin to produce sound.



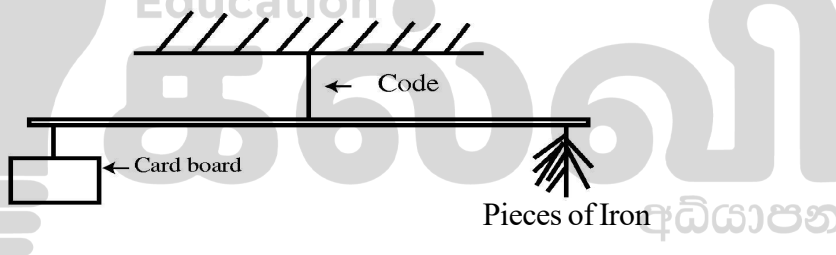
- (a) Write a change can be done in above instrument to change of its sound. (1 Mark)
- (b) Write a musical instrument produce sound similar to this instrument. (1 Mark)
- (12 Total marks)

(05) (A) Given below are energy sources that used to maintain the human life.

Sun, Fossil fuel, Bio mass, Wind, Energy of water

- (i) What is the main source of energy from above. (1 Mark)
- (ii) Write two examples for fossil fuel. (2 Marks)
- (iii) What is the source of energy that can be used to both purposes of drying clothes and removing unfilled rice grain from harvest. (1 Mark)
- (iv) Write two examples for bio masses used in your house . (2 Marks)

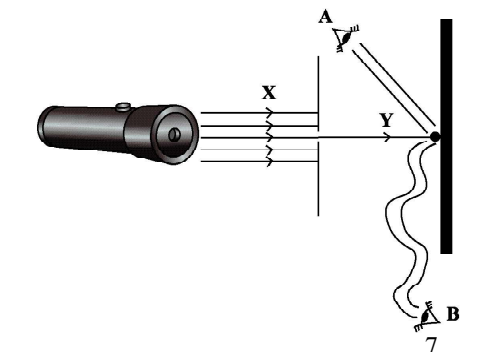
(B) Given below is a set up which created by a farmer to chase away animals from his field. It is made out of a rod hanged with piece of cardboard and pieces of iron to ends of the rod. It can move freely.



- (i) What is the type of energy used to operate the set up. (1 Mark)
- (ii) What is the type of energy produce by the set up. (1 Mark)
- (iii) Write two changes can be done in this set-up to work it more efficient. (1 Mark)
- (iv) Is this set up more suitable for paddy field or home garden. (2 Mark)

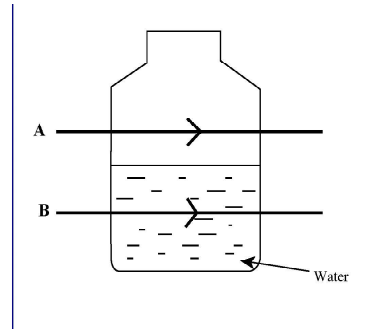
(12 Total marks)

(06) Diagram given below shows the way of a light obtain by a touch directed on to a wall through a thin hole in cardboard. The light spot observes through the straight tube and a curved tube.



- (i) In which eye can observe the light spot clearly from A and B? (1 Mark)
- (ii) What is the property of light can be used to observe it? (1 Mark)
- (iii) Write the energy source and energy type used in here. (2 Mark)
- (iv) Name (X) and (Y) respectively. (2 Marks)
- (v) Wall do not allow to pass light through it. What is the name of this property? (2 Marks)
- (vi) Object which emit light are known as luminous objects, Write two luminous objects. (2 Marks)
- (vii) Write two stratargies can be used to observe A and B light ray clearly. (2 Marks)

(12 Total marks)



- (07) (A) Fill in the blanks using suitable words.

Things around us can be divided into two groups as matter and (i) Matter can be divided into three categories according to its shape and volume as (ii) liquid and gases. The matter which hasn't definite volume and shape are known as (iii)

(3 Marks)

- (B) Given below are some characteristics of solids (Brittleness, Elasticity, Ductility, malleability, hardness, and texture)

- (i) What is the property in a balloon. (1 Mark)
- (ii) What is known as malleability. (2 Mark)
- (iii) Write two substances with brittleness. (2 Mark)
- (iv) What is the name given for special property of substances which can be drawn into wires. (1 Mark)
- (v) Write a substance with smooth texture. (1 Mark)
- (vi) Write a characteristic which present in gas and not present in liquid. (1 Mark)
- (vii) What is the physical state of water. (1 Mark)

(12 Marks)