

- (8) This is an example for a bio mass,
 (1) Dried cow dung (2) Hay
 (3) Coal (4) Firewood
- (9) What is the most suitable energy source to generate electricity in power stations of Sri Lanka,
 (1) Nuclear power (2) Tidal waves
 (3) Running water (4) Geothermal energy
- (10) Light,
 A. Does not travel through translucent objects.
 B. Transmits in straight lines.
 C. Type of energy.
 (1) A and B are correct (2) B and C are correct
 (3) A and C are correct (4) All are corrects
- (11) The musical instruments which produce the sound by vibrating strings and membranes respectively,
 (1) Rabana and violin (2) Violin and rabana
 (3) Guitar and flute (4) Guitar and harmonium
- (12) A substance which is attracted to a magnet is,
 (1) Brass (2) Iron (3) Glass (4) Lead
- (13) Select the correct statement / s related to sound ,
 A. Sound is produced only by vibration.
 B. Some sounds are noises.
 C. Sounds can be produced artificially.

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

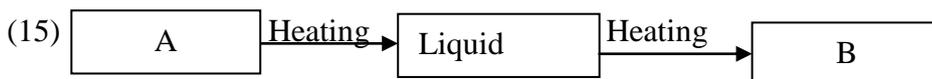


Above diagram shows 4 containers of equal weight to test the salinity of water. 4 water samples of equal volume have been put in these containers. After evaporating water in each container following reading were taken

| <u>Container</u> | <u>Mass after evaporation</u> |
|------------------|-------------------------------|
| A | 2.0g |
| B | 1.5g |
| C | 1.0g |
| D | 0.5g |

Which container had the water with highest salinity?

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



Physical states of A and B are respectively,

- (1) Liquid/ Gas (2) Solid/ Gas (3) Solid/ Liquid (4) Liquid/ Solid

(16) Which is not an instance where the water exits in solid form,

- (1) Glacier (2) Mist (3) Snow (4) Ice

- (17) In the modern world communicating via the telephone is well developed and different types of light rays used in this network are built using.
 (1) Laser rays (2) Optic fibers (3) Strong light beams (4) Colored light rays
- (18) Which is an example for rhythmic sound?
 (1) Sound of blowing wind (2) Sound of shouting children
 (3) Sound of vehicles (4) Sound of “koha”
- (19) Select the correct statements related to magnets.
 (1) The attractive power of a bar magnet is high at the mid line.
 (2) A freely hanging magnet stays still in between North and South.
 (3) Magnetic property of a magnet can be increased by dropping the magnet to the ground.
 (4) The repulsion occurs when North Pole of a magnet is placed near the South Pole of a magnet.
- (20) Select the correct statement / s
 A. Unclear water is not transparent.
 B. The brightness of light can be increased by using an opaque membrane.
 C. The object cannot be seen clearly when we look through an oil paper.
 (1) Only A is correct (2) A and B are correct.
 (3) A and C are correct. (4) All statements are correct.

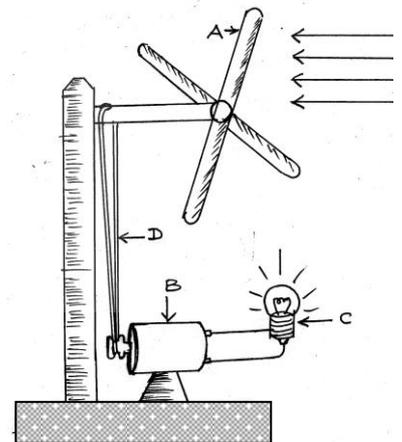
Part - II

Answer the first question and 4 other questions.

(1) A group of students in grade 6 prepared a model of a wind mill with the help of their teacher

(i) Name the parts A,B,C and D

- A -
- B -
- C -
- D-.....



(ii) Name the methods to obtain continuous wind flow

-
-

(iii) Mention two observations you can see in this setup when supplying continuous wind flow

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(iv) Write two changes that occur when the wind flow is increased

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(v) If they need to use energy stored in water here, mention two changes that should be made in this setup

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(vi) Name a place where a wind power plant is situated in Sri Lanka

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(vii) Name an advantage of using wind power instead of fossil fuels

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(viii) Name two other energy sources expect the above mentioned energy sources

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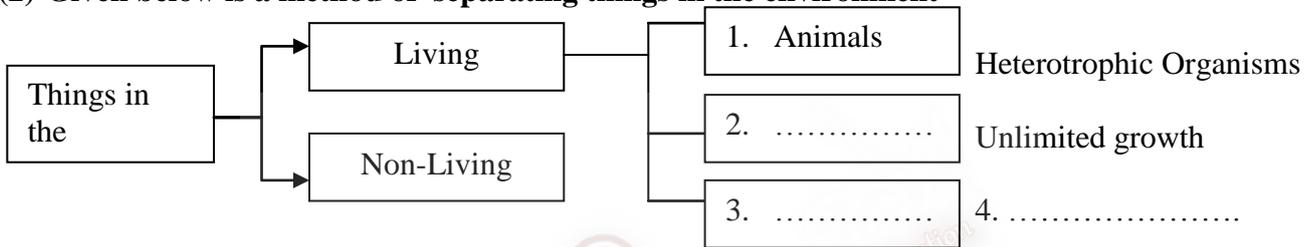
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(ix) What is the significance of sustainable use of energy sources?

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.....

(2) Given below is a method of separating things in the environment



(i) Name the types of organism mentioned as 2 and 3

.....

.....

(ii) Name a feature that can be written in blank 4

.....

.....

(iii) Name 2 features of nonliving things which can be used to separate it from living things.

.....

.....

(iv) Mention two methods of locomotion of animals with example

.....

.....

(v) Give an example for movements of plants.

.....

.....

(vi) What do you mean by “Reproduction”?

.....

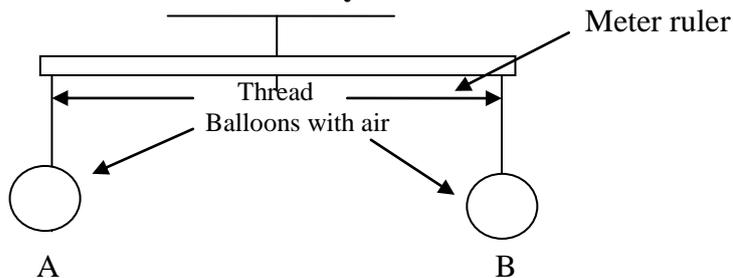
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(vii) Why does the process of reproduction important for organisms?

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(3) A. Given below is an activity done in the lab.



(i) A hole was made in the balloon B with a pin,

(a) Write an observation.

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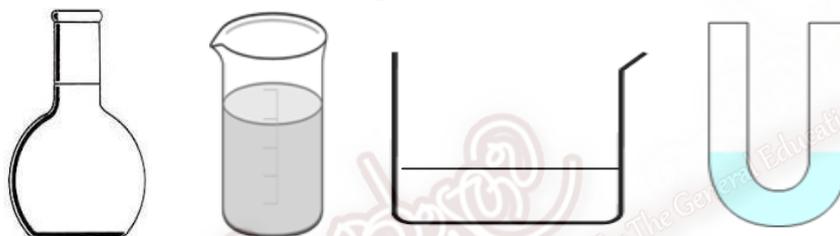
(b) Give your conclusion.

.....

(ii) Write a change that can be made in this setup instead of this activity

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(iii) 20 ml of colored water has been put in to these vessels.



Mention the conclusion of the above activity.

.....

(B)

(i) What is the instrument mentioned as “X”

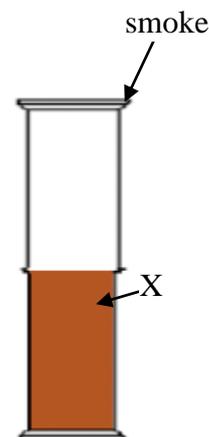
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(ii) Name an observation of the above activity.

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(iii) Name a property of gaseous materials according to this activity.

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(C)

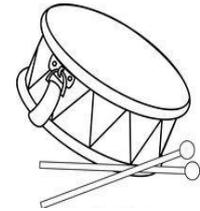
(i) Give an example for a solid matter.

(ii) Name two properties of solid matter.

(iii) Name a common feature of materials.

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(4) Given below are some sources of sound.



(A)

(B)

(C)

(D)

(E)

(i) Name the sources of sound mentioned in B,C and D.

B C D

(ii) Mention the main method of classifying above sources of sound.

.....

(iii) Name the methods of producing sound in A and E separately.

A E

(iv)

(a) Name a musical instrument that you prepared in the class room.

.....

(b) Name a material used for the above activity.

.....

(v) Write the different between music and noise.

.....

(5) (A) Explain the following terms

(i) Transparent objects.

.....

(ii) Translucent objects.

.....

(iii) Opaque objects.

.....

Write the answer using the given list of words.

(Oil papers, decorative glass, unclear water, honey, copper plate, clean air)

(a) Name a transparent material.

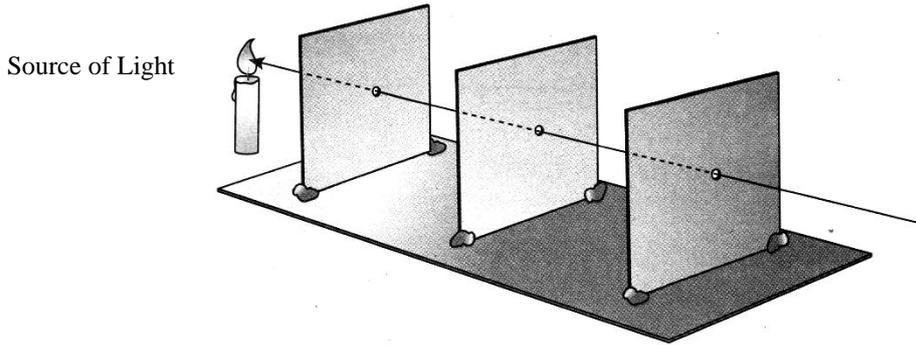
(b) Name a translucent material.

(c) Name an opaque material.

(d) Write an instance where transparent materials are used in day today activities

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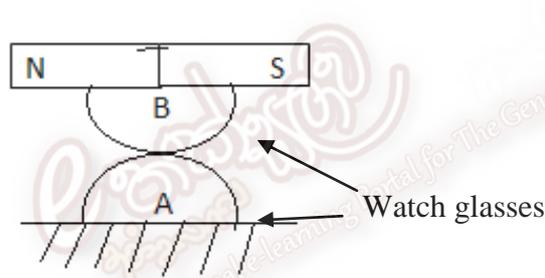
(B) Given below is an activity done to observe the behavior of light



Consider the above experiment and put tick (✓) if these statements are correct, and if these are wrong, put a cross(x) inside the brackets.

- (i) Transparent materials are used here as screen with hole. ()
- (ii) Laser torch is more suitable as a source of light. ()
- (iii) Light transmits in straight lines. ()
- (iv) Only one ray of light is transmitted through holes. ()

(6) (A) Given below is an activity done to observe the properties of magnets.



The watch glass B was slowly rotated on A and allowed it to be still.

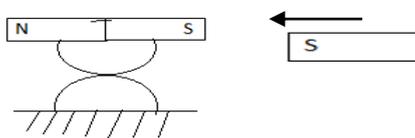
(i) Explain the observation.

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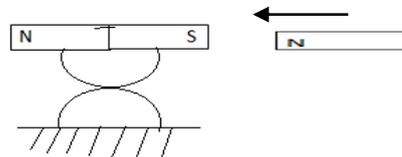
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(ii) Consider the given instances.



(1)



(2)

According to the above instances;

(a) In which instance repulsion occurs?

(b) In which instance an attraction occurs?

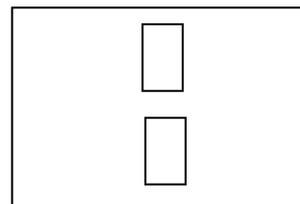
(iii) Name 02 substances that are attracted to magnets.

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(B) Place two magnets in a considerable distance, keep a paper on that and spread the iron fillings on the paper. The iron fillings are arranged as follows.

(i) Mention the conclusion according to the given observations.

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(ii) Name two instruments that are made using magnets.

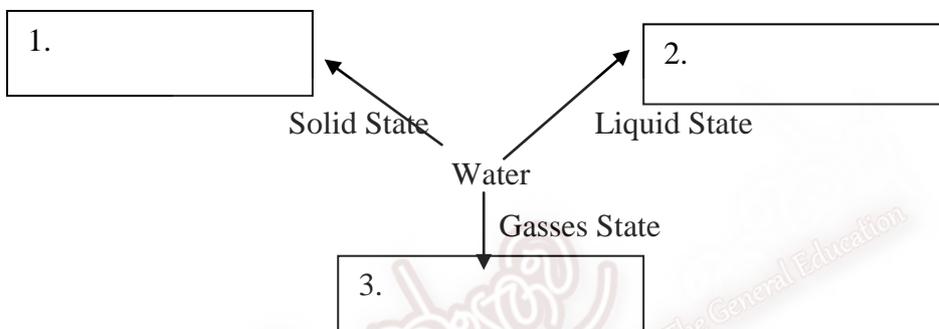
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(iii) Name another type of magnet except the bar magnet.

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(7) Water is necessary for the existence of organisms. That is due to the physical and chemical properties of water. Water exists in the states of solid, liquid and gas in the natural environment.

Write the answers, which are suitable for the blanks in the following concept map.



(i) Mention the physical state of water for the given instances.

- (a) Water in polar region
- (b) Clouds
- (c) Mist

(ii) Many salts are dissolved in water. Name the types of water based on salinity.

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(iii) Name a human activity that causes water pollution of canals in urban areas.

.....

(iv) Write a statement to be displayed in your school to convey the message to the student to use water economically.

.....

Extra question (only for Muslim schools)

(1)

(i) Prepare a dichotomous key to categorize the following organisms.

(Mouse, Crow, Butterfly, Cobra, Tortoise)

(ii) Name the type of animals according to the environment where they live.

.....

(iii) If these statements are correct put tick (✓) and if these are wrong put a cross (x) inside the

brackets

- (a) Solar energy is required for production of food in plants. ()
- (b) Exhale air contains more oxygen than carbon dioxide. ()
- (c) All micro-organism caused diseases. ()
- (d) Growth metre is used to measure the growth of a plant. ()