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දෙවන වාර පරීක්ෂණය - 06 ශ්‍රේණිය - 2024
Second Term Test - Grade 06 - 2024

Science - I

Time: 2 hours

Name/Index No:

PART I

- Answer all the questions. Choose the most correct answer and underline it.

1. Which answer contains only living things?

- (1) Chlamydomonas, jack tree, water. (2) Paramecium, earth worm, paddy plant.
(3) Air, water, soil. (4) Butterfly, Amoeba, soil

2. The living characteristic which is shown by this figure is,



- (1) Growth
(2) Reproduction
(3) Respiration
(4) Locomotion

3. Select the answer that contains a luminous object and a non – luminous object.

- (1) Moon, Earth (2) firefly, Butterfly
(3) Electric bulb, Sun. (4) Shot put, lantern

4. During a field trip, an animal like the one shown in the image below was encountered. That animal should be,



- (1) A reptile
(2) An insect
(3) An amphibian
(4) A bird.

5. Select the answer which contains the source of energy and its relevant application.

- (1) Sun - For drying materials.
(2) Biomass - For operating the television.
(3) Wind - For running a train.
(4) Tidal waves - For boiling water.

6. The glass of which the part marked as “x” of this ordinary filament lamp is made of,

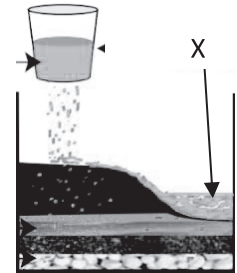
- (1) An opaque material (2) A translucent material
(3) A transparent material (4) A malleable material.



7. An instance in which micro-organisms can be observed well is,

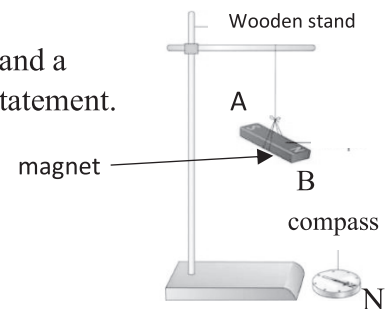
- (1) Observation of a sample of hay rotted water with a hand lens.
(2) Observation of a sample of pond water with a simple microscope.
(3) Observation of a sample of rain water with a light microscope.
(4) Observation of a sample of hay rotted water with a light microscope.

- Use the diagram of a setup which was prepared to demonstrate the behaviour of water falling on the earth during a rain for the 8th and 9th questions.



8. (1) Ground water (2) Surface water
(3) Water vapour (4) Muddy water
9. The mode of precipitation shown by the diagram is,
(1) Rain fall (2) Snow (3) Hail (4) Sleet
10. It was observed that the deposition of tiny water droplets on the outer surface of a bottle taken out from a refrigerator and kept on a table. The reason for this is,
(1) Water vapour in the refrigerator is deposited on the outer surface of the bottle.
(2) Leaking the drink in the bottle to outside.
(3) Deposition of ice which is in the refrigerator on the bottle.
(4) Condensing water vapour in the atmosphere and depositing on the outer surface of the bottle.

11. The figure shows a magnet suspended by a string from a wooden stand and a compass placed on a table. The magnet stays at rest. Select the correct statement.

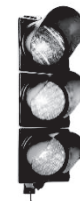


- (1) "A" denotes a north pole.
(2) "B" denotes a south pole.
(3) "A" denotes a south pole.
(4) "B" may be a north pole or a south pole.
12. Diamond is used to cut glass. The special property of diamond used here is,
(1) Hardness (2) Malleability (3) Brittleness (4) Texture

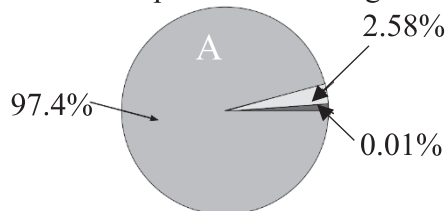
13. When a few ice cubes are put in a boiling tube and heated with burner,
A- Ice cubes turn into liquid water **B – Liquid water turns into water vapour.**

From these statements,

- (1) A is correct (2) Both A and B are correct
(3) Both A and B are incorrect (4) B is correct. A is incorrect.
14. The application of light shown in the figure on the right is,
(1) Illumination (2) Communication
(3) Giving a clear vision (4) Giving signals



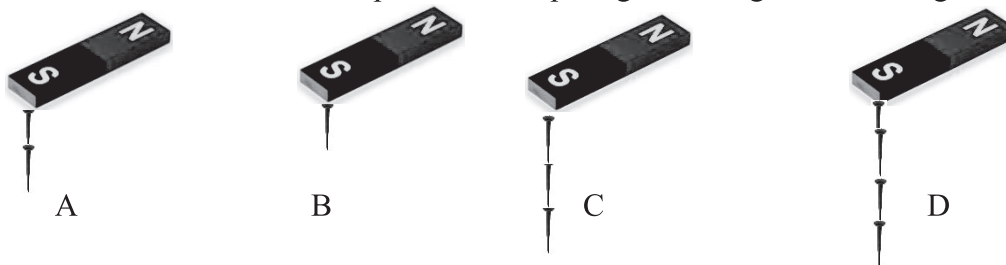
15. Below is a pie chart showing two types and amounts of water on the earth's surface in percentages.



Letter "A" represents,

- (1) water in solid state
(2) water that can be consumed
(3) water in seas and oceans
(4) water in rivers and streams
16. Select the incorrect statement.
(1) Ability to do work is energy.
(2) Coal, natural gas and petroleum oil deplete quickly.
(3) The energy of the sun is stored in every source of energy.
(4) Every energy source can be regenerated.

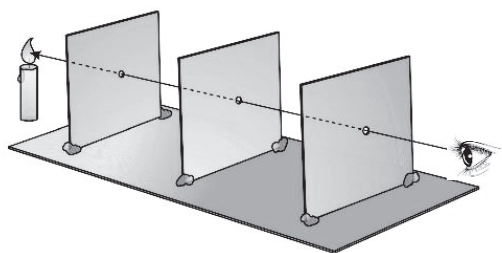
17. Below are of four instances of an experiment comparing the strength of four magnets using iron nails.



According to the observations, the magnet with highest strength and the magnet with least strength respectively are,

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

18. By this activity of looking at the candle through card boards with a hole in the middle can be confirmed that,



- (1) Light propagates in a straight line.
 (2) A beam of light consists of many rays.
 (3) The ability to classify materials as transparent, translucent and opaque.
 (4) Necessity of light for vision.

19. Below is a statement made by a certain student regarding sound and the reason for that statement.

Statement: - *Listening to loud noises is not favourable.*

Reason: - *Hearing such sounds can damage the ears.*

Consider the statement and reason.

- (1) Statement is true and reason is false.
 (2) Both statement and reason are true.
 (3) Statement is false and the reason is true.
 (4) Both statement and reason are false.

20. Select the mismatch statement about saw dust stove.

- (1) Biomass is used as the energy source here.
 (2) It is suitable for cooking food and boiling water.
 (3) This is simple and inexpensive method.
 (4) It can be used continuously for several weeks when once lit.

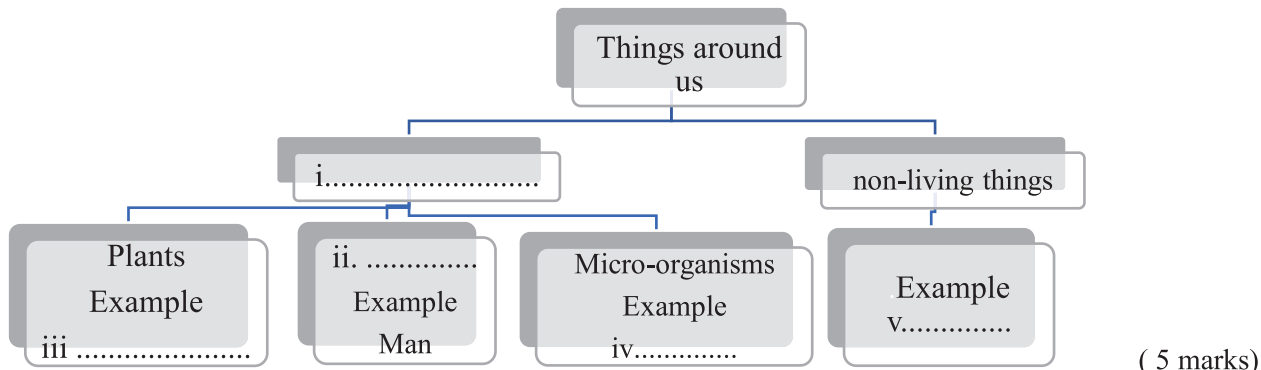
PART II

- Answer for the first question and four more questions.
- Use separate papers for writing answers.

- 1) A) The things in our environment are classified as living and non-living things and living things are classified under three other categories.

Microscope, Amoeba, flower plant, Animals, Living things

Fill in the blanks in the given chart using above words.



- B) Using the image below and your knowledge match A and B columns.



Column A

- The autotrophic organism
- The heterotrophic organism
- The process of producing food in plants
- Obtain from air for photosynthesis
- The locomotory organ of parrot

Column B

- Parrot
- Carbon dioxide
- Wings
- Mango plant
- Photosynthesis

(5 marks)

- C) Put a (✓) if true and a (x) if false in the given brackets for the following clauses.

- | | |
|--|-----|
| I. Nutrition is the process of producing energy in organisms. | () |
| II. Lime water is turned to milky colour by carbon dioxide. | () |
| III. Reproduction is not essential for the existence of organisms. | () |
| IV. Chlorophyll contains in green colour animals. | () |
- (4 marks)

- D) Classify the two animals, the rat snake and the eagle using a dichotomous key. (2 marks)

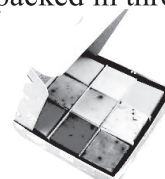
- 2) A). As shown in the figures below, three different types of materials are packed in three different containers. Study them carefully and answer the questions asked.



Oxygen containing tank



Coconut oil containing barrel

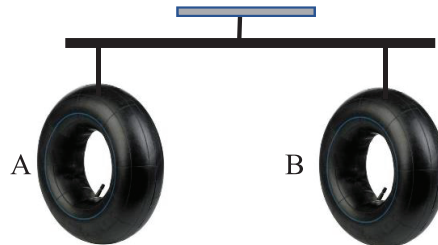


Bars of soap packed box

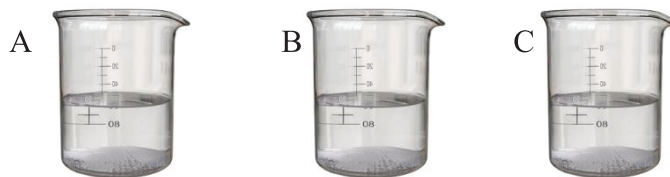
- Write a common characteristic of all three substances contained in bins. (1mark)
- Name the substances with following properties.
 - Having a definite shape as well as a definite volume. (1mark)
 - Having a definite volume but not a definite shape (1mark)

- iii. What is the physical state in which oxygen exist? (1mark)
- iv. What is the name which can be used to introduce substances contained in all these three bins? (1mark)
- v. What is the international standard unit used to measure the mass of substances? (1mark)
- vi. Write a characteristic that makes things like electricity, light and sound differ from the substances contained in the above bins. (1mark)

B). The figure shows two identical vehicle tubes filled with air equally and suspended from a light rod in equilibrium.

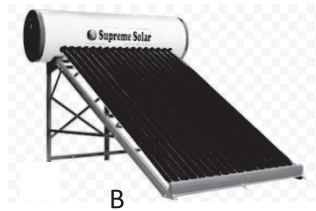
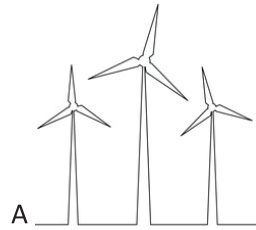


- i. a. What is observed when the valve of tube A is left open so that the air escapes slowly? (1 mark)
 - b. What is the reason for above (a) mentioned observation? (1 mark)
 - ii. a. What is the material used to make tubes of vehicles and balloons? (1 mark)
 - b. Write the reason why the material you mentioned in (a) above is suitable for that purpose. (1 mark)
- 3) A). Three 50ml beakers of equal mass are named as A, B and C. 20ml of drinking water, lagoon water and sea water were put into the three beakers respectively and their masses were measured. Answer the following questions accordingly.

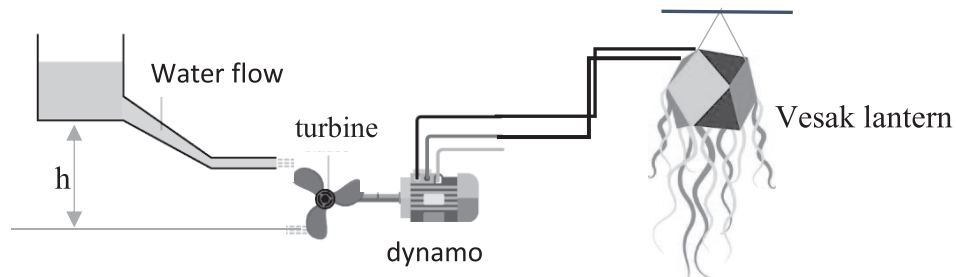


- i. Which beaker shows the highest mass? (1 mark)
 - ii. What is the beaker which contains brackish water? (1 mark)
 - iii. If 2ml of water are taken from the three beakers A, B and C each and placed separately on a tin lid and the water is heated and evaporated, the water obtained from which beaker, remains the most salt? (1 mark)
- B). Select and write the appropriate words from the brackets to complete the blanks of the following sentences.
- (Oceans, production of food, food digestion, three, five, glazier)**
- i. There arestates of water in nature.
 - ii.is an example for surface water.
 - iii. Water is important for the process ofof animals.
 - iv. Water is essential for thein plants.
 - v. Water exists in solid state as (5 marks)
- C). Write short answers.
- i. Write a human activity that causes water pollution. (1 mark)
 - ii. Mention an instance where water is being helped in recreation. (1 mark)
 - iii. Mention a disease that we can get due to drinking polluted water. (1 mark)

- 4) A). Various sources of energy are used to facilitate daily activities. Write the names related to the sources of energy mentioned in the following clauses.
- Providing energy for producing food in green plants. (1 mark)
 - Energy is obtained from atoms by technological means. (1 mark)
 - Caused by the influence of the moon and the sun. (1 mark)
 - Formed from plant and animal parts buried in the earth in the past. (1 mark)
- B). A few applications of energy sources used in Sri Lanka are shown in the following figures.

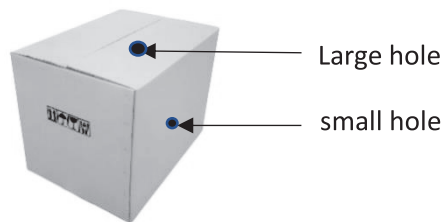


- Name the source of energy used in “A” here. (1 mark)
 - In addition to the given use, write another use in case of the energy source applied at A. (1 mark)
 - Write two other applications of the energy source used in “B”. (2 mark)
- C). A set up presented by a student at a science fair is as follows.



- How should the height “h” be changed to increase the brightness of the bulb?(1mark)
 - When the bulb inside the Vesak lantern is lit, the light emitted is visible, but the bulb is not. The reason for this is what property of the material that is pasted to the Vesak lantern? (1mark)
 - Name another source of energy that can be used instead of a stream of water to turn the turbine of a power plant. (1mark)
- 5) A) Complete the blanks in the passage with the help of the following picture, using the these words.

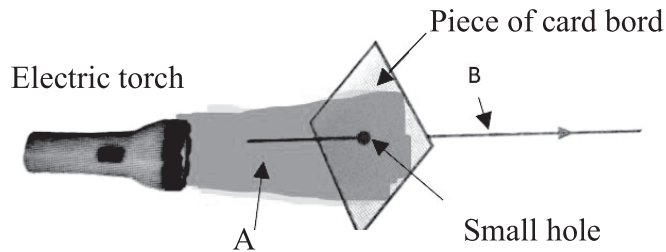
**Eye, non-luminous,
vision, light, luminous**



(5 marks)

There is a cardboard box with a small hole and a large hole. Teacher said that, an object was kept in it. When the large hole was closed, I peeped into it. I didn't see anything. That is because there is no (i)..... in the box. Again, I observed the object after opening the large hole and directing an electric torch into the box. There was a beautiful rose flower inside the box. Rose flower is a (ii).....object, because it does not emit light. Electric torch emits its own light. Therefore, it is a (iii).....object. Then I understood that light is necessary for (iv)..... Except that (v).....is also important for vision.

B)





The image above shows how the light emitted by a lighted torch was directed on to a piece of cardboard with a small hole in it. Match the two columns according to it.

Column A

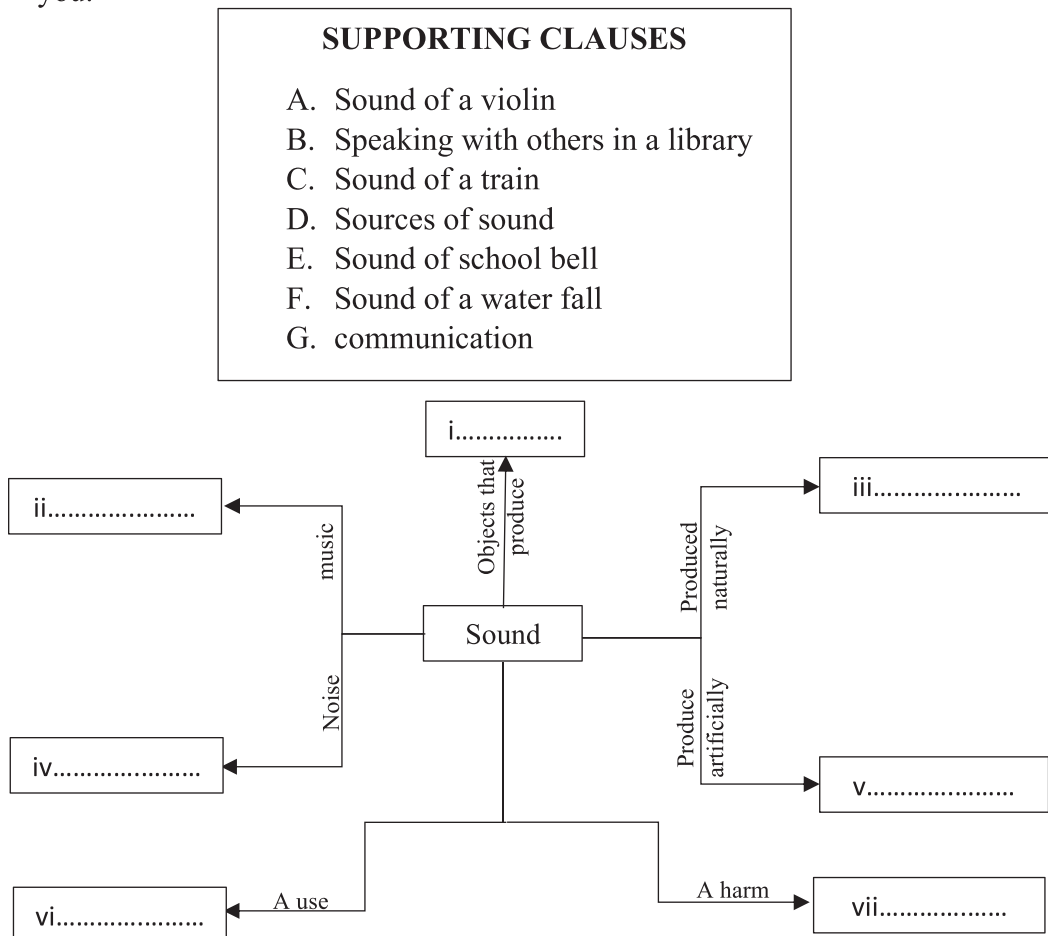
- i. "A" denotes
- ii. Denoted as "B"
- iii. A light ray
- iv. A beam of light
- v. Piece of card bord is
- vi. Air

Column B

- a. A light ray
- b. Opaque
- c. 
- d. A beam of light
- e. Transparent
- f. 

(6 marks)

- 6) A) We hear different sounds in our daily life. Focusing on that, complete the following **concept map** built based on sound. For that use the letters related to the supporting clauses given to you.



(7 marks)

B) Give short answers to the questions given below.

- i. What is the organ that is sensitive for sound? (1 mark)
- ii. Name another instrument that produces sound same way as a guitar. (1 mark)
- iii. Write down a way you use sound for entertainment. (1 mark)
- iv. Mention a way in which sound is important to your safety. (1 mark)

7) A)



- i. What is the name of the magnet shown in this figure? (1 mark)
- ii. How many poles are there in this magnet? (1 mark)
- iii. Write down an instance where magnets are usefully used. (1 mark)
- iv. A piece of metal was found while digging a small hole to obtain a soil sample. How can you check if it is a magnet? (1 mark)
- v. Name a substance that can be used to detect the area of magnetic force spread around a magnet. (1 mark)

B) Two creations presented by students during a group assignment are given below.

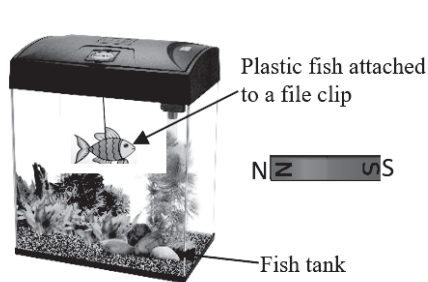


Figure A

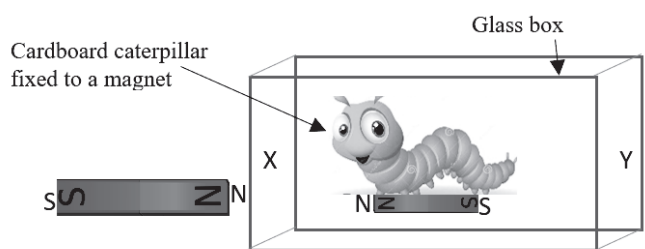


Figure B

- i. What should be done to the setup to demonstrate the swimming of fish in figure A? (1 mark)
- ii. In place of the file clip, name another material suitable to attach to the fish. (1 mark)
- iii. Which property of magnet is used to move the fish? (1 mark)
- iv. In figure B, the caterpillar is moving in (a).....(X/Y) direction. Here the magnet (b).....(attracts/repels) the caterpillar. Here, when the sides of the magnet are switched, the caterpillar is drawn towards (c).....(Y/X) (3 marks)