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Department of Education, Southern Province

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Third Term Test

Grade 6

Science

Time: 2 hours

Name:.....

Part I

- Answer all the questions.
- Underline the correct answer.

01. The process of producing energy in organisms is,

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

02. Main difference between plants and animals is,

- (1) Photosynthesis (2) Respiration
(3) Growth (4) Movements

03. A characteristic common for gaseous matter only is,

- (1) Having a definite shape (2) Not occupying a space
(3) Having a definite volume (4) Not having a definite volume.

04. The answer that shows examples respectively for solid, liquids and gases is,

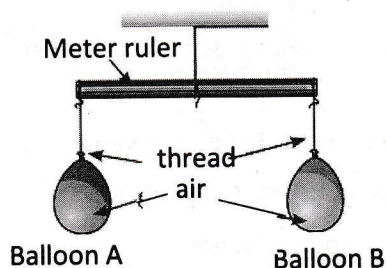
- (1) Ice, Water vapour, Gas
 (2) Ice, Water, Water vapour
 (3) Brick, Wax vapour, Water vapour
 (4) Water, Coconut oil, Oxygen

05. Not a fossil fuel,

- (1) Liquid petroleum gas (3) Coconut shell coal
(2) Coal (4) Petrol

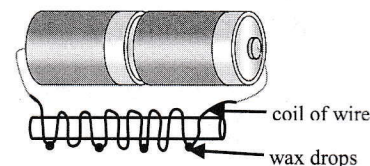
06. This set – up is prepared to identify one of the characteristics of gaseous matter. When the air in balloon A is removed.

- (1) Balloon A goes up, balloon B goes down
- (2) Balloon A goes down, balloon B goes up
- (3) No any changes in the balloons A and B
- (4) Meter ruler remain balanced.



07. The instrument used in the laboratory to measure the volume of a liquids is,
- (1) Test tube
 - (2) Beaker
 - (3) Measuring cylinder
 - (4) Boiling tube
08. The answer that contains only electric sources is,
- (1) Dynamo, Electric bulb, Solar cell
 - (2) Dynamo, Solar cell, Dry cell.
 - (3) Dry cell, Torch, Bulb
 - (4) Torch, Bulb, Dynamo
09. The answer that shows the power station and its location correctly is?
- (1) Coal power station - Norechchole
 - (2) Hydro power station - Victoria
 - (3) Wind power station – Hambantota
 - (4) Diesel power station – Laxapana
10. The answer that shows transparent, translucent and opaque materials respectively is,
- (1) Thin glass, Decorative glass, Cardboard
 - (2) Black paper, Decorative glass, Air
 - (3) Decorative glass, Air, Black papers
 - (4) Air, Oil paper, Thin glass.
11. When the switch of this circuit is closed wax drops turn into liquid. What effect of electricity can be demonstrated by this?

- (1) Heating effect
- (2) Light effect
- (3) Magnetic effect
- (4) None of the above



12. Not an instance of using optic fiber ,
- (1) Connecting audio visual instruments.
 - (2) To magnify small objects.
 - (3) Telephone connecting grids.
 - (4) To examine the interior of the body.
13. The source of energy not used present in Sri Lanka is ,
- (1) Wind
 - (2) Fossil fuel
 - (3) Bio mass
 - (4) Sea waves
14. The table below shows the observations obtained when three materials a, b, c are brought closer to a bar magnet.

material	brought closer to pole N	brought claser to pole S
a	Attraction	Attraction
b	No attraction, no repulsion	No attraction no repulsion
C	Attraction	Repulsion

According to the above observations the three materials a, b and c respectively are,

- (1) Magnet, Carbon, Graphite
- (2) Carbon, Iron, Magnet
- (3) Iron, Carbon, Magnet
- (4) Iron, Magnet, Carbon

15. The metal in liquid state is,

- | | |
|-------------|------------|
| (1) Mercury | (2) Silver |
| (3) Copper | (4) Gold |

16. The scientist who observed first that the current can be produced when a magnet is moving in a coil is,

- | | |
|-------------------------|-----------------------|
| (1) D.J. Wimalasurendra | (2) Michael Faraday |
| (3) Alexandra Volta | (4) Benjamin Franklin |

17. The group of animals that does not change the body temperature according to the environmental temperature is,

- | | |
|--------------|----------------|
| (1) Reptiles | (2) Amphibians |
| (3) Fish | (4) Mammals |

18. The group of organisms responsible for maintaining the environmental balance is,

- | | |
|----------------|-----------------------|
| (1) Producers | (2) Herbivores |
| (3) Carnivores | (4) All of the above. |

19. The panda lives in china has faced a threat of extinction. The main reason of it is,

- (1) Being a herbivorous animal
- (2) Depends only on bamboo plant
- (3) Not being able to withstand the cold weather
- (4) None of the above

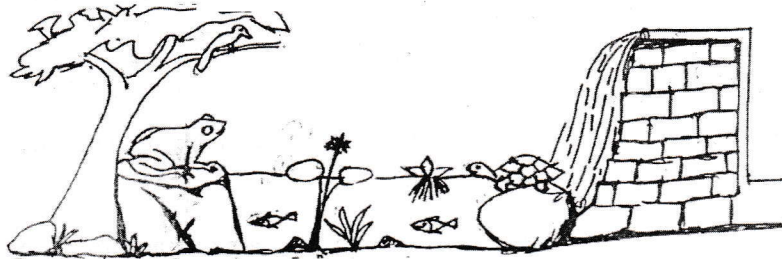
20. A step that can be taken for the sustainable use of energy sources is

- (1) Using alternative source of energy
- (2) Using LED bulbs instead of filament bulbs.
- (3) Ironing several clothes at once
- (4) All of the above.

Part II

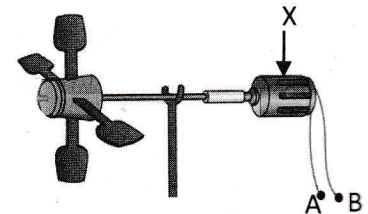
- Answer question no 1 and four more questions.

01. A water fall prepared to beautify the home garden of Vidun and a pond adjacent to it is shown in the diagram below.



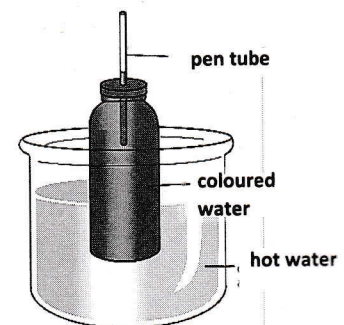
Answer using the above diagram.

- A. (i) Write an example each for an autotrophic organism and a heterotrophic organism.
 (ii) What is the specific process possessed by the organism to name it as an autotrophic organism
 (iii) What is the important component released to the atmosphere in the above process?
 (iv) What is the biological process of organisms that the above component is important?
- B. There are relationships between plants and animals as well as animals and animals for food.
 (i) Write a food relationship present between plants and animals.
 (ii) Write a food relationship present between animals and animals.
 (iii) (a) Write a food chain with three links that can be observed in the above environment.
 (b) Name the producer and the second level consumer in this food chain.
 (iv) Write an animal each for carnivorous and omnivorous animals that can be observed in this environment.
- C. A small set-up was prepared by Vidun thinking that current can be produced by this waterfall.
 (i) Write two materials used by him to make the water wheel.
 (ii) Write one method that can be used to increase the rotational speed of the water wheel
 (iii) What is the instrument X connected to the water wheel to produce electricity?
 (iv) Write a method to prove that electricity is produced.



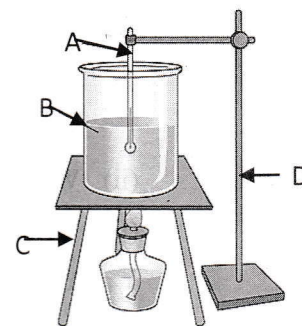
02. (A) The diagram below shows an activity prepared by the teacher to demonstrate the expansion of liquids under the effect of heat.

- (i) What is the observation obtained here?
 (ii) What is the reason for using coloured water?
 (iii) Name an instrument that uses the expansion of liquids.
 (iv) Write a liquid used in this instrument



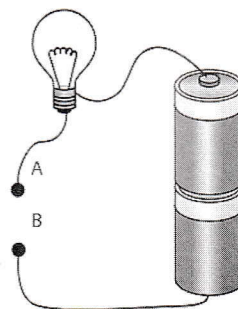
(B) A set-up prepared to obtain hot water for the above activity and to show that temperature of water goes up when heat is supplied is shown below.

- Name the instruments A, B, C, and D.
- Write a thing that should be considered when the reading of thermometer is taken
- What is the temperature that water boils?
- Write the state change taken place when water boils.



03. (A) The diagram below shows a circuit prepared to identify materials that allow to flow current and not allow to flow current.

- The substances shown below are placed in between the gap A and B.
*** Graphite rod * Coin * Rubber * Polythene**
 Write separately the materials that allow to flow current and materials that do not allow to flow current.
- What is the scientific word used to identify the substances that allow to flow current.
- Show the bulb and the dry cell in their standard symbols.
- To what type does the dry cell belong when chemical cells are classified?

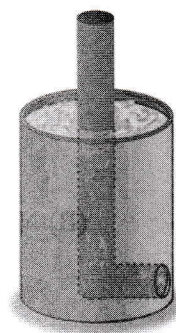


(B) A circuit was prepared to be able to flow current only in one direction.

- What is the electronic accessory used here?
- Draw the circuit symbol of this accessory
- (a) Name the accessory that emits light when current is flowing only in one direction.
 (b) Draw the external appearance of this accessory and name + and - terminals of it.

04. (A) Bio mass takes a prominent place among the sources of energy used in Sri Lanka.

- Define the word "bio mass"
- The diagram below shows a set up that can be used to produce heat using bio mass.
 (a) what is this set-up
 (b) Name a suitable material that can be used to fill the tin.
 (c) Write an advantage as well as a disadvantage of using this set up.



(A) Coal



(B) Petrol

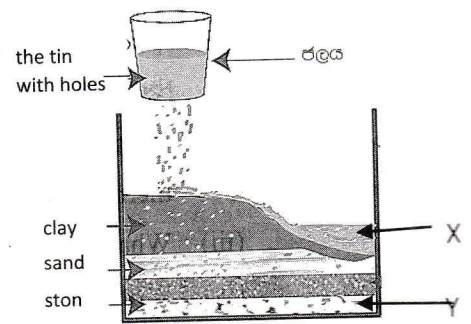


(C) L. P gas

- What is the common way that these sources of energy are introduced?
- What states of matter are demonstrated by A, B, and C ?
- Write a feature that is common only for B and C states

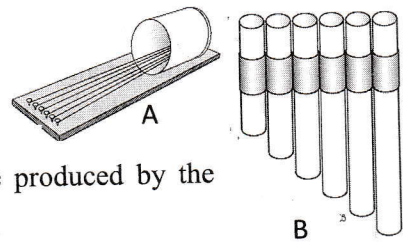
05. (A) An activity done to observe the various states of water that water exists is shown below.

- What state that water exists is demonstrated by falling water from the tin with holes on to the soil?
- Write the other two states that water exists.
- Write an example each for the two ways shown as X and Y in the diagram.



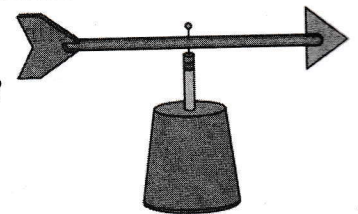
(B) Ayesh who studies in grade 6 prepared two musical instruments for his sister and brother to participate in "Perahera" organized by the primary section of the school.

- Write separately what should be done to produce sound by the instruments A and B?
- What should be done to strings to obtain a pleasant sound by A?
- What tube of B gives a high sound?
- Write a musical instrument each that sound can be produced by the methods shown by A and B?



06. (A) Weather forecast was done after the news telecast. They mentioned the areas that show the highest rain fall and the highest temperature with the last 24 hours.

- Write the two factors they forwarded regarding the weather mentioned here.
- Write two other factors other than the above two factors regarding weather.
- Write the two instruments used to obtain the values of the two factors mentioned in part (i) above.
- (a) What is this instrument prepared by Vidusha in his classroom?
(b) Write two materials used by Vidusha to make this instrument.



(B) Natural disasters occur due to changing the weather

- Write two such natural disasters.
- Name an institute that make the people aware about these natural disasters.
- Write one step you can take to minimize natural disasters.