



# Minuwangoda Education Zone

## Second Term Evaluation - 2023

Grade 6

Science

Time : 2 hours

### Part I

\* Answer all questions.

\* Underline the most suitable answer.

- (1) Growth is a common characteristic for all living organisms. The organism who shows a limited growth is,  
(i) mango tree (iii) "japan jabara" plant  
(ii) "kuppamenia" plant (iv) elephant
- (2) A type energy in the environment is,  
(i) still water (iii) heat  
(ii) flowing water (iv) a soil sample
- (3) The incorrect statement related to microorganisms is,  
(i) Cannot be observed through the naked eye.  
(ii) Can be observed using a handlens.  
(iii) lives on spoiled food.  
(iv) lives inside the human body.
- (4) The instrument suitable to measure a volume of liquid is,



(1)



(2)



(3)



(4)

- (5) The ability of a metal to be drawn into thin sheet without breaking is known as,  
(i) malleability (iii) texture  
(ii) ductility (iv) elasticity
- (6) A substance with a definite shape and a definite volume is,  
(i) coal (iii) water vapour  
(ii) water (iv) mercury
- (7) Brackish water can be seen in,  
(i) oceans (ii) lakes (iii) rivers (iv) lagoons
- (8) Glaziers are an example for,  
(i) water in liquid state (iii) water in gaseous state  
(ii) water in solid state (iv) air in liquid state
- (9) The substance which does not belong to fossil fuels is,  
(i) coal (ii) saw dust (iii) petrol (iv) LP gas

- (10) The colours that are used in traffic light are,
- |                       |                          |
|-----------------------|--------------------------|
| (i) yellow, blue, red | (iii) green, yellow, red |
| (ii) green, blue, red | (iv) yellow, blue, green |
- (11) An instrument with a magnet is,
- |                 |                     |
|-----------------|---------------------|
| (i) small motor | (iii) water heater  |
| (ii) hot plate  | (iv) electric torch |
- (12) Not a luminous object is
- |                  |            |
|------------------|------------|
| (i) lighted bulb | (iii) star |
| (ii) sun         | (iv) moon  |
- (13) A translucent material is,
- |                |                       |
|----------------|-----------------------|
| (i) metal      | (iii) pure water      |
| (ii) cardboard | (iv) decorative glass |
- (14) The material which attracts to magnets is,
- |          |             |            |              |
|----------|-------------|------------|--------------|
| (i) lead | (ii) copper | (iii) iron | (iv) plastic |
|----------|-------------|------------|--------------|
- (15) The magnetic power of a magnet is mostly spreaded in,
- |                                 |
|---------------------------------|
| (i) north pole                  |
| (ii) south pole                 |
| (iii) middle of the magnet      |
| (iv) both north and south poles |
- (16) which sound out of the followings disturb others.
- |                             |                         |
|-----------------------------|-------------------------|
| (i) sound of a violin       | (iii) sound of a guitar |
| (ii) sound of a dog barking | (iv) sound of a sithar  |
- (17) A wind power plant is situated in,
- |                  |                  |
|------------------|------------------|
| (i) Kelanithissa | (iii) Kothmale   |
| (ii) Hambantota  | (iv) Norochchole |
- (18) Out of the following instances, the factor which does not affect for water pollution is,
- |  |
|--|
| (i) using agro chemicals in paddy fields.                |
| (ii) bathing and washing different things in reservoirs. |
| (iii) constructing dams along rivers.                    |
| (iv) releasing waste of factories into reservoirs.       |
- (19) “The plants purify the atmosphere” The idea given by the above statement is,
- |  |
|--|
| (i) plants take oxygen for respiration.                                |
| (ii) plants take carbon dioxide for photosynthesis and release oxygen. |
| (iii) plants cool the environment.                                     |
| (iv) plants provide shelter to the environment.                        |
- (20) A step that can be taken for sustainable use of energy sources is,
- |   |
|---|
| (i) opening the door of refregirator time and time again.                           |
| (ii) minimizing the usage of vehicles run by fossil fuels as much as possible.      |
| (iii) using <i>LED</i> bulbs instead of filament bulbs.                             |
| (iv) producing electricity by thermal power stations instead of using solar panels. |

## ***Part II***

- **Answer five questions including the first.**

(1) A group of grade 6 students listed out the following things they observed in the environment during a field trip organized by the science teacher.

- |               |                 |             |
|---------------|-----------------|-------------|
| 1. Mango tree | 5. Parrot       | 9. Salvinia |
| 2. Snail      | 6. Coconut tree | 10. Water   |
| 3. Paramecium | 7. Balsam plant |             |
| 4. Light      | 8. Kingfisher   |             |

(A) Answer the following questions considering the above given list.

- (i) Categorize the organisms given in the above list as plants, animals and microorganisms.

Plants	Animals	Microorganisms

- (ii) Name two autotrophic organisms.

.....

- (iii) What is the energy type used by green plants for photosynthesis.

.....

- (iv) Name 2 birds in the above list.

.....

- (v) Name the animal who possesses a shell for its protection.

.....

- (vi) What is the plant with a strong branched stem.

.....

- (vii) Name an aquatic plant.

.....

- (viii) Write a specific external feature of birds.

.....

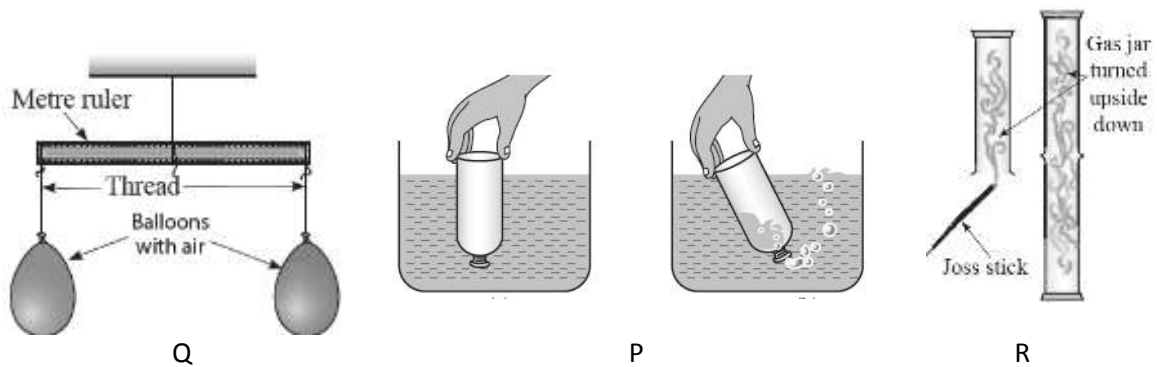
(B)(i) Write 2 characteristics of living organisms, which helps to identify living organisms from non - living organisms.

.....  
.....

(ii) If water the students found during their field trip is polluted, write 2 human activities which are affected for water pollution.

.....  
.....

(2) (A) Some simple experiments that can be carried out in the school laboratory are given in the below diagram.



(i) Which feature of gaseous state is tested by doing the activity P

.....

(ii) In the activity Q, a small hole is made in one balloon. After that what will be the observation?

.....

(iii) What is the conclusion of the activity R.

.....

(B)

(i) Name a type of energy which can be observed in the environment.

.....

(ii) Write 2 examples for liquids state.

.....

(iii) Name the physical property of solids which describes by the following statements.

(a) The property of increasing the length of a material by a force of stretch.

.....

(b) Feel of surface, rough or smooth.

.....

(3) A stove created by the students of a certain school for a science exhibition is given in the below diagram.



- (i) What is the name of this stove?  
.....
- (ii) What is the energy source used to boil water by this stove.  
.....
- (iii) Mention an advantage of using that energy source to boil water.  
.....
- (iv) What is the instrument should be immersed in the small metallic vessel to test whether water is boiled or not.  
.....
- (v) Name 2 bio masses which can be used to cook food.  
.....
- (vi) Write a harmful effect of using more fossil fuels.  
.....
- (vii) Name an energy source suitable to generate electricity in Sri Lanka instead of fossil fuels.  
.....
- (viii) Mention two steps that can be taken for sustainable use of energy sources.  
.....  
.....

(4) (A)

(i) Identify and name the following magnets according to their shapes.



A



B



C

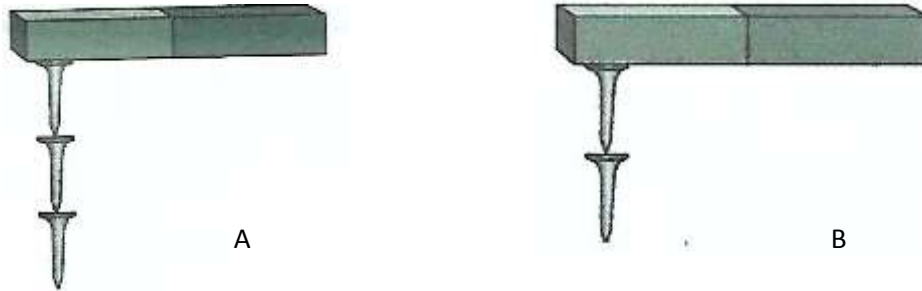
(A) ..... (B) ..... (C) .....

(ii) Name 2 materials that are attracted to magnets.  
.....

(iii) Name the two poles of a magnet.

.....

(iv) The diagram given below is an experiment carried out by a student to find out the most powerful magnet out of the magnets A and B.



What is the most powerful magnet out of A and B.

.....

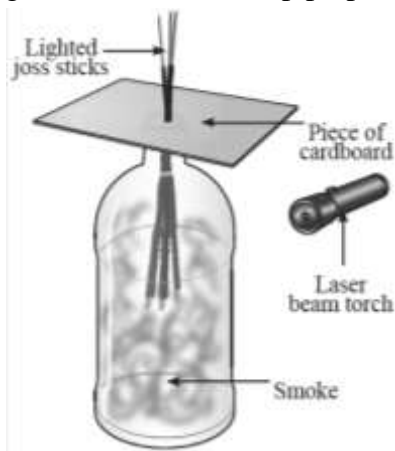
(v) A bar magnet which is prepared to float on water rests along a certain direction of the earth. Indicate the direction of the earth in which the poles are located, when the magnet is at rest.

.....

(vi) What is the instrument used to find directions when travelling in a desert.

.....

(5) (A) The diagram given below is a set up prepared to identify a certain special property of light.



(i) Which property of light is tested by the above experiment.

.....

(ii) What is the advantage of filling joss stick smoke into the bottle.

.....

(iii) How can a light ray be obtained by a normal electric torch instead of a laser torch.

.....

.....

(B) (i) Write an instance where laser light rays are used in medical field.

.....

(ii) In addition to healthy eye, what is the other factor needed for clear vision.

.....

(iii) Name the luminous object out of the sun and the moon.

.....

(iv) Draw a beam of light.

.....

(6) (A) A source of sound is given in the below diagram. Answer the questions considering that.



(i) What is the known as a source of sound.

.....

(ii) What is the observation in addition to hearing of sound, when playing the above source of sound.

.....

(iii) What can be concluded from that observation.

.....

(iv) Name an instrument which produces sound in the same way as the above source of sound.

.....

(B) (i) Given an example for each of the following sounds.

Music - .....

Noise - .....

(ii) What is the organ sensitive to hearing.

.....

(iii) Some people use ear protectors. What is the reason for that.

.....

(7) If the following statements are correct put (✓) mark if incorrect put (✗) mark.

- (i) When constructing dichotomous keys mostly considered the internal features of organisms. ( )
- (ii) Sea anemone is a plant that cannot move. ( )
- (iii) Glass is a brittle substance. ( )
- (iv) Underground water is a method of precipitation. ( )
- (v) Moving of branches of trees due to wind is an example for movements of plants. ( )
- (vi) The amount of salt dissolved in fresh water is very low. ( )
- (vii) Like poles of two bar magnets are attracted to each other. ( )
- (viii) The water reservoir of a hydro power station should be located in a low land. ( )
- (ix) “Horanewa” is a musical instrument which produces sound by vibrating air column. ( )
- (x) Sound of thundering and lightning is an example for natural sounds. ( )
- (xi) The standard unit of measuring mass is kilograms. ( )