



PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

Second Term Test 2018

Grade 6

SCIENCE

Time : 2 hours

Name / Index No.

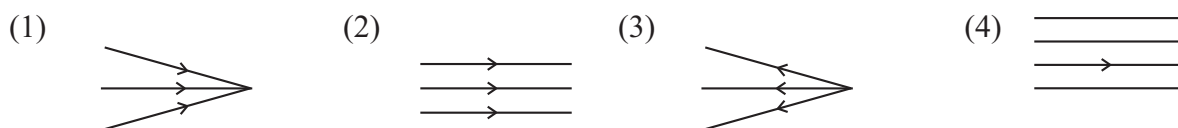
Part I

- Answer all questions in Part I.
 - Two marks for each question. Underline the most suitable answer for question 1 to question 15.
01. The process of producing energy by reacting stored food with Oxygen in the Organisms is,
(1) Growth (2) Reproduction (3) Respiration (4) Nutrition
02. The ability of an object to be drawn into thin sheets without breaking by hammering is,
(1) Brittleness (2) Malleability (3) Hardness (4) Ductility
03. The place of a magnet where the magnetic power more concentrated is,
(1) North Pole (2) South Pole
(3) The Center of the magnet (4) Two poles of the magnet
04. The water that dissolved many salts is,
(1) Brackish water (2) Fresh water (3) Marine water (4) Muddy water
05. The answer which contains examples only for fossil fuel is,
(1) Coal, Diesel, Kerosine (2) Coal, Kerosine, Coconut oil
(3) Coal, Diesel, Coconut oil (4) Coal, Kerosine, Diesel
06. The percentage of water that can be consumed is,
(1) 1.01% (2) 0.01% (3) 0.1% (4) 0.001%
07. The matter that can be considered as an energy source is,
(1) Coconut oil (2) Coal (3) Diesel (4) Fossil Fuel
08. Four Statements are given below that have been expressed by a child about few energies. What is the correct statement among them?
(1) There are benefits and harms of light.
(2) There are only benefits of sounds.
(3) There are only benefits of light.
(4) Light and sound are the useful energies for us.

09. The Physical Property of the powder is,

- (1) Ductility (2) Malleability (3) Softness (4) Elasticity

10. What is the Parallel light beam?



11. The most suitable energy to produce electricity in Sri Lanka is,

- (1) Hydro power and Nuclear energy (2) Tidal Waves and Solar energy
(3) Solar energy and Wind energy (4) Geothermal energy and Nuclear energy

12. What is the correct statement about water?

- (1) Rain water contains salts.
(2) Sea water is salt in taste due to dissolve many salts in it.
(3) The amount of salts dissolved in marine water is less than the amount of salts dissolved in brackish water.
(4) No any salts dissolved in fresh water.

13. The substance which can be used to identify the Carbon dioxide gas in exhaled air is,

- (1) Limestone (2) Copper Sulphate
(3) Cobalt chloride (4) Colourless lime water

14. Why are plants known as autotrophs?

- (1) Due to absorb food needed from the soil.
(2) Due to Contain pigments called chlorophyll in the plant.
(3) Due to supply food for biosphere.
(4) Due to produce their own food by them selves.

15. What is not a movement of plants?

- (1) Shrinking of leaves of tamarind when dark falls.
(2) Shrinking of leaves of Mimosa when stimulus is touched.
(3) Dying of a plant due to without water.
(4) Growing of shoot apex towards the light.

- **Select the most suitable answer from the words given in brackets and fill the blanks from question 16 to 20.**

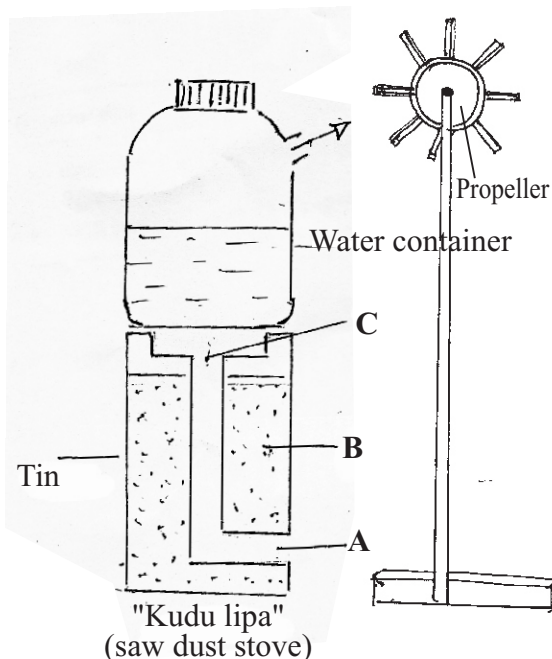
(Autotrophs / Heterotrophs / Matter / Transparent / Sound / Energy)

16. The things that occupy space and have a mass are
17. The Organisms which depend directly or indirectly on plants are
18. The media which light travels in regular manner is
19. A vibration of an object causes to produce a
20. The ability to do a work is

- First question is compulsory. Answer only for four (4) questions from other five questions.
- 16 marks have been given for first question and 11 marks for each others.

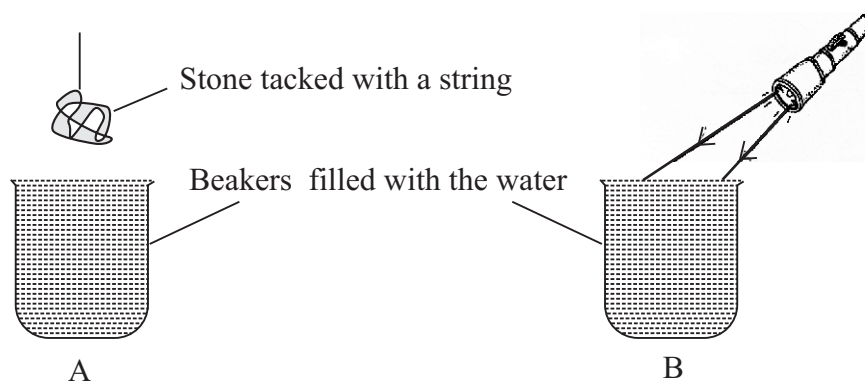
01.A Following image shows a setup prepared to prove that a work can be done by using energy.

- (1) Write the letter of the place of "Kudu lipa" / saw dust stove where enters the fire? (01m.)
- (2) How can light the "Kudu lipa" / saw dust stove? (01m.)
- (3) The fuel used in Kudu lipa / saw dust stove is shown in letter "B". Write the most suitable two things for "B". (02m.)
- (4) Write two observations when boiling water in the Container. (02m.)
- (5) Mention two energy sources that have been used in this system. (02m.)



- (1) Mention two physical states of water which can be identified in this process. (02m.)
- (2) What is the physical property of metal used in producing the tin? (01m.)
- (3) Write two equipments that need to fix to this propeller to produce electricity? (02m.)
- (4) Write two methods can be used to increase the speed of the propeller without changing its initial position. (02m.)
- (5) Give an example for a instance of wastage of energy in your school. (01m.)

02. Two simple activities are given below which have done to compare the characteristics between matter and energy.



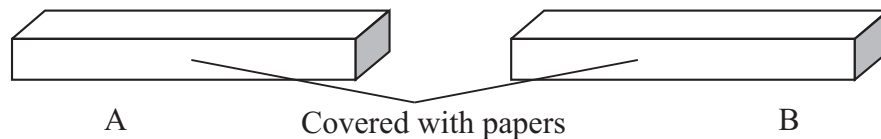
These beakers are identical and they are completely filled with water.

Activity : The stone is gradually sunken in the water in A container.

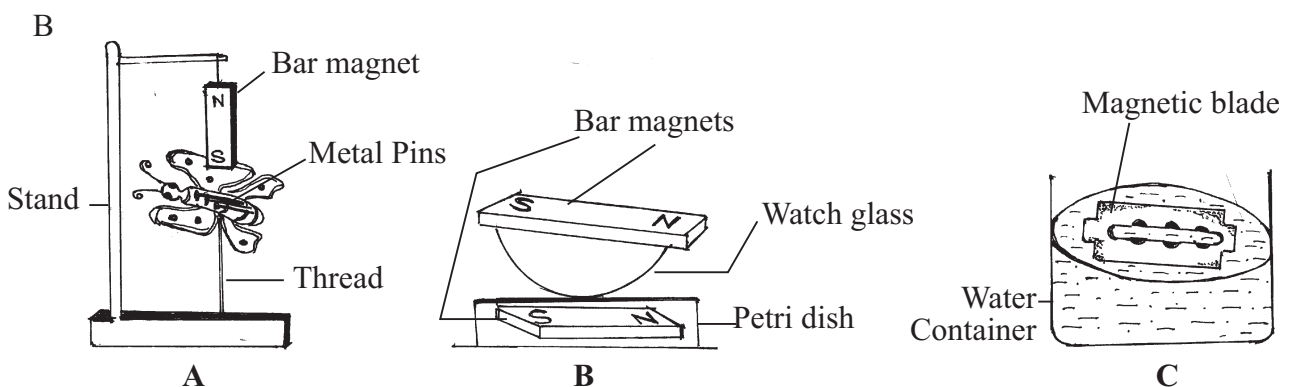
The light of the torch is directed to the water in B Container.

- (1) Mention the changes happened if take place of the water levels of A and B containers when starting of these activities. (02m.)
- (2) Write the reasons for each observations. (02m.)
- (3) Write the conclusion can be obtained from those observations. (02m.)
- (4) Write two examples for each matter and energy considering the stuffs used for this activity. (02m.)
- (5) Write another characteristics of matter except you identified before. (01m.)
- (6) Draw a labeled diagram of an activity which can be done to identify the character mentioned in question 5. (02m.)

03.A Below diagrams show two identical metal bars completely covered with papers. One is a normal bar and other one is a magnetic bar.



- (1) Write how to identify A and B separately by using a bar magnet in two steps. (02m.)
- (2) Draw a labeled diagram of an activity which can be done to identify the poles of the magnetic metal bar. (02m.)
- (3) How can you identified its north and south poles? (02m.)

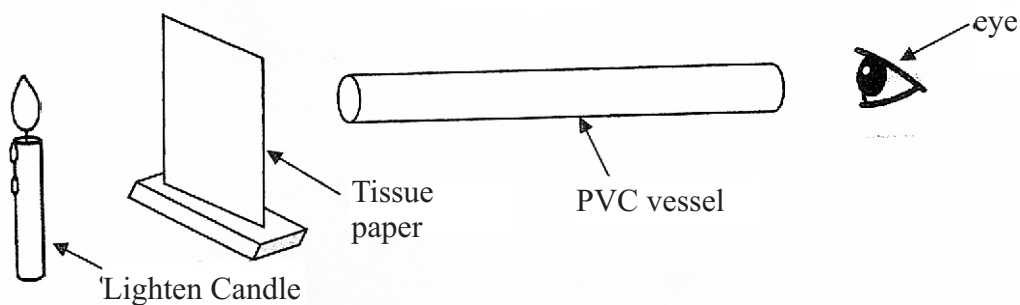


- (1) Select and write the suitable actives from aboves which involve to prove below characteristics of magnets. (02m.)

Characteristics of magnets	Letter relevant to the activity
1. Direct to the north and south when in rest.	
2. Attract the iron or iron mixed alloys.	
3. Repulsion of equal poles and attraction of unequal poles.	

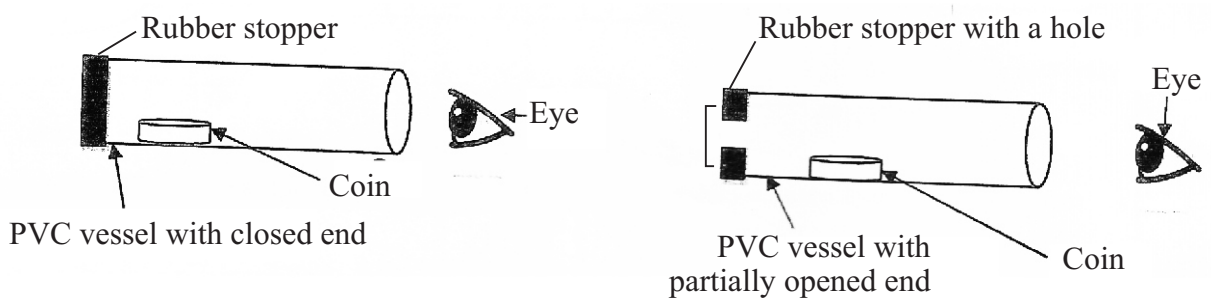
- (2) a) What is the observation can be obtained when watch glass rotates slowly on the Petri dish? (01m.)
- b) What is the relevant conclusion for it? (01m.)
- (3) Write examples for the equipment made by magnets which come across in following places.
- a) Laboratory b) Home (02m.)

04. Following diagram shows a simple activity based on light and vision.



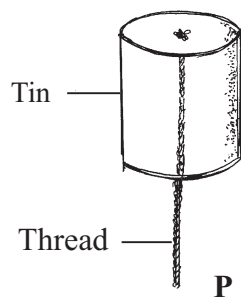
- A (1) What is the observation can be obtained when look at the candle flame through the P.V.C. vessel? (01m.)
- (2) Write the reason for that observation. (01m.)
- (3) According to the traveling of light in which type of medium tissue paper is an example for? (01m.)
- (4) a) What will be the observation when replace tissue paper by a Cardboard sheet? (01m.)
- b) What is the reason for that? (01m.)

B



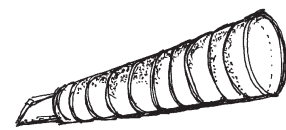
- (1) When looking at the coin through the vessel in activity 'X'.
 - a) What is the observation? (01m.)
 - b) What is the reason for observation? (01m.)
- (2) When looking at the coin through the vessel in activity 'Y'.
 - a) What is the observation? (01m.)
 - b) What is the reason for observation? (01m.)
- (3) What is the conclusion can be obtained according to those observations? (01m.)
- (4) Write an instance where light use in medical field. (01m.)

05. Following diagrams shows the two musical instrument which have made by the students of grade 6.



The whistle which drive away the cattle

P

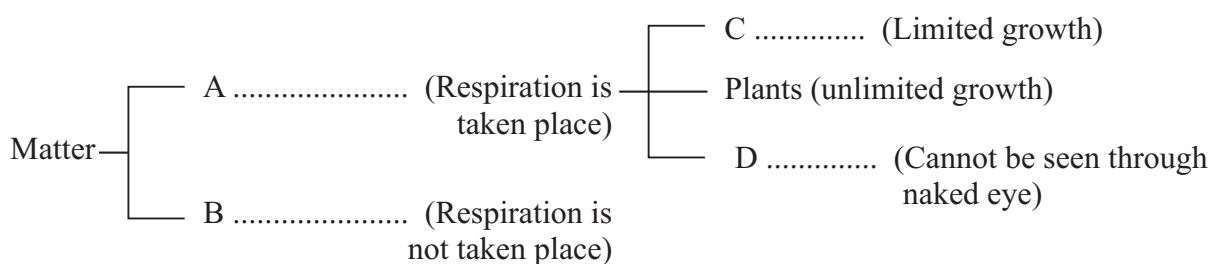


Coconut leaf whistle

Q

- (1) Mention the methods have to use to produce sound from P and Q instruments. (02m.)
- (2) A students says that above instruments are sources of sounds. What is the reason for that? (01m.)
- (3) a) What is the observation you can obtain when put some styrofoam balls on the bottom of the tin after it starts to function ? (01m.)
b) What is the reason for above observation? (01m.)
- (4) a) Write the names of another two instruments that you have made in your class room. (01m.)
b) What are the stuffs you used to produce those instruments? (02m.)
- (5) What is the name of sound produced when a musical instrument play rhythmically? (01m.)
- (6) a) What is the name of sound produced a musical instrument donot play rhythmically? (01m.)
b) Give an example for above types of sound in the environment. (01m.)

06. Following shows the chart of classification of matter.



- (2) Write an example for "D". (01m.)
- (3) Write the name of the instrument that have to use to observe "D". (02m.)
- (4) Reproduction can be observed in 'A'.
a) What is meant by reproduction? (01m.)
b) What is the benefit earned for organisms by reproduction. (01m.)
- (5) What is the function done by plants for the existance of biosphere? (01m.)
- (6) Which source given energy for that process? (01m.)

Grade 6
Answer Sheet - Part I
SCIENCE

- | | | | | | | | | | |
|----------------|------------------|-----------------|-------------------|----------------|---------|---------|---------|---------|---------|
| 01. (3) | 02. (2) | 03. (4) | 04. (3) | 05. (1) | 06. (2) | 07. (4) | 08. (1) | 09. (3) | 10. (2) |
| 11. Light rays | 12. Fossil fuel | 13. Fresh water | 14. Precipitation | 15. Energy | | | | | |
| 16. Matter | 17. Heterotrophs | 18. Translucent | 19. Sound | 20. Autotrophs | | | | | |

Part II

- 01.A (1) Place A (01m.)
- (2) Putting fire from the Place A (01m.)
- (3) Saw dust & rice bran (02m.)
- (4) Emitting steam & rotating the propeller (02m.)
- (5) Bio mass & steam (don't give marks for examples) (02m.)
- B (1) Liquid & Gases (02m.)
- (2) Malleability or hardness (01m.)
- (3) A motor & a bulb (02m.)
- (4) Increase the amount of fans of the propeller and Broad the size of the fans of the propeller. (02m.)
- (5) The correct answers (01m.)
02. (1) A Over flow the water of container / Decrease the volume of water of A container. (01m.)
- B Do not overflow the water of B container. / Do not decrease the volume of water of B Container. (01m.)
- (2) A Stone / Mater has occupied the space in A. (01m.)
- B Light / Energy has not occupied the space in B. (01m.)
- (3) A stone is mater & occupy space (01m.)
- B Light is an energy & do not occupy space (01m.)
- (4) Suitable answer (01m.)
- (5) Have a mass (01m.)
- (6) Correct diagram of the setup. (02m.)
- 03.A (1) 1st step - Carrying the magnet along the covered metal bars. (01m.)
- 2nd step - Every place of the normal metal bar attract to the magnet. only one pole of the magnetic metal bar is attracted and other pole is repelled. (01m.)
- (2) Correct answer (02m.)
- (3) Correct answer (02m.)
- B (1) 1. C (01m.)
2. A (01m.)
3. B (01m.)
- (2) a) suitable answer (01m.)
- b) suitable answer (01m.)

Grade 6
Answer Sheet - Part II
SCIENCE

- 04.A (1) Flame of the candle cannot be clearly seen. (01m.)
- (2) Light travels in irregular manner (01m.)
- (3) Translucent media (01m.)
- (4) a) Flame of the candle cannot be seen. (01m.)
- b) Light do not travel across the cardboard. (01m.)
- B (1) a) The coin cannot be seen. (01m.)
- b) Due to light don't fall on to the coin. (01m.)
- (2) a) The coin can be seen. (01m.)
- b) Due to light fall on to the coin. (01m.)
- (3) Light is needed to see (01m.)
- (4) Correct answer (01m.)
05. (1) p - stretch the thread from top to bottom of P. (01m.)
- q - blow the terminal of P by mouth (01m.)
- (2) Due to sound producing object (01m.)
- (3) a) Balls of styrofoam moving here and there. (01m.)
- b) Due to Vibration of the bottom of the tin. (01m.)
- (4) a) Suitable answer (01m.)
- b) Suitable answer (02m.)
- (5) Music (01m.)
- (6) a) Noise (01m.)
- b) Suitable answer (01m.)
06. (1) A - living things B - Non living things C - Animals D - Micro-oganisims (04m.)
- (2) Two correct answers (2x1 = 02m.)
- (3) Microscope (02m.)
- (4) a) Production of a new generation for the continuation of their species. (01m.)
- b) for the continuity of the species / existance of the species (01m.)
- (5) Photosynthesis (01m.)
- (6) From sun (01m.)