

Kelaniya Educational Zone
Second Term Test - 2016
Science

Grade 6

Time : 2 Hours

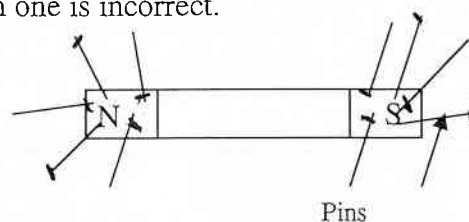
Name :-

Part I

- Answer all questions.
- Select and underline the most suitable answer.

01. What gas is released by green plants during the process of photosynthesis?
1) Carbon dioxide 2) Oxygen 3) Nitrogen 4) Water vapour
02. Feeding method of butterfly is,
1) Herbivorous 2) Carnivorous 3) Omnivorous 4) Parasites
03. Which property of rubber is used when making gloves?
1) Elasticity 2) Malleability 3) Plasticity 4) Ductility
04. Which one is **not** an energy source
1) Light 2) Heat 3) Sound 4) Air
05. What is the state of water that exists as gas?
1) Steam 2) Mist 3) Glaziers 4) Snow
06. Which instrument is used to measure the exact volume of liquid?
1) Beaker 2) Conical flask 3) Test tube 4) Measuring cylinder
07. Select the plant with a tap ~~food~~^{root} system
1) Cashew 2) Coconut 3) Sugar cane 4) Paddy
08. Who **does not** take Oxygen artificially for respiration?
1) Mountain climbers 2) Divers 3) Athlete 4) Seriously ill person
09. What is the observation, when bubbling exhaled air into the test tube containing colourless lime water obtained by the laboratory?
1) Change to light blue 2) Change to milk colour
3) Form brown colour precipitate at the bottom 4) Change to pink colour
10. What material is used in the equipment which is used to cut glasses?
1) Graphite 2) Crystals 3) Steel 4) Diamond
11. The states of matter are solid, liquid and gas. Which one is not a feature of solid.
1) Can be touched 2) Ability to flow
3) Has definite shape 4) Has definite volume

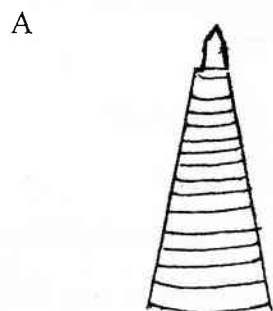
12. Percentage of marine water on the earth surface is,
 1) 0.01% 2) 2.58% 3) 97.4% 4) 85%
13. Which is **not** a feature of all living beings?
 1) Growth 2) Movement 3) Reproduction 4) Respiration
14. Select the activity which we **do not** use wind power.
 1) Grind grains 2) Remove husk of rice grain from harvest
 3) Generate heat 4) Generate electricity
15. Which statement is incorrect about energy.?
 1) Electricity can be generated by using geothermal energy.
 2) The sun produces energy using atoms.
 3) High tide and low tide are occurred due to the effect of wind.
 4) Steam can be generated using nuclear energy
16. What are the factors needed to have a good vision?
 1) Light and eye 2) Light and object
 3) Eyes and brain 4) Light source and light rays
17. Select the correct statement about trees and animals,
 1) Animals obtain oxygen from the atmosphere fro their respiration.
 2) Animals show locomotion while plants show movements.
 3) Animals do not grow during entire life span but plants grow during entire life span.
 4) Plants obtain Carbon dioxide from the atmosphere for their respiration.
18. Given below are the activities done by the students.
 a) Placed the handkerchief tightly at the bottom of the glass and kept the glass upside down vertically in water basin.
 b) Fixed two equal balloons filled with air at the two ends of meter ruler and balanced it horizontally and then make a hole in one balloon.
 c) Filled an air jar with the smoke of jos stick and placed another air jar by turning upside down on it.
- Which activity / activities would you select to prove that the matter has mass?.
- 1) a only 2) b only 3) b and c only 4) a, b, c all
19. Following statements describe the behaviour of a magnet. Which one is incorrect.
 1) Pins are magnetic substance.
 2) This figure shows a bar magnet.
 3) Magnetic properties are high at the two ends of the magnet.
 4) Middle of the magnet consists of iron.



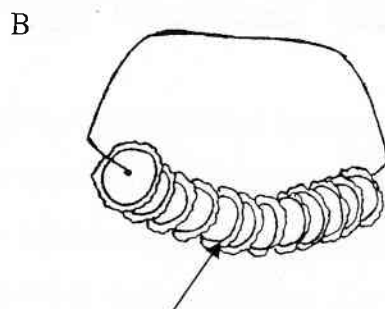
Part II

- Answer question No 1 and four other questions.

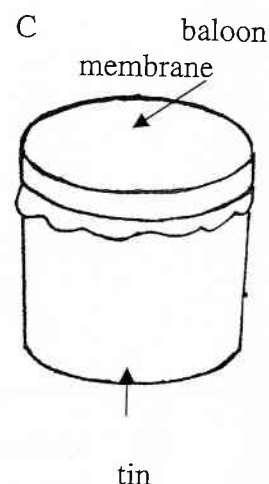
01) A) Your teacher assigned you to prepare various types of musical instruments under the competency level of "Main differences among various sounds" as a second term assignment. You may have prepared various instruments as follows and may obtained marks as well as have fun by operating them.



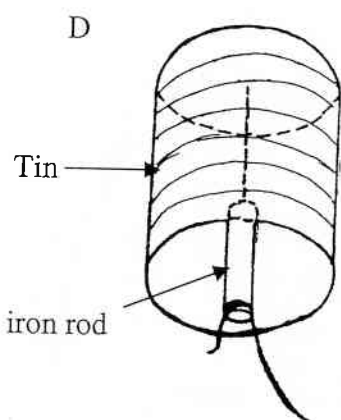
Horn made of
gokkola



caps of soft drink bottles

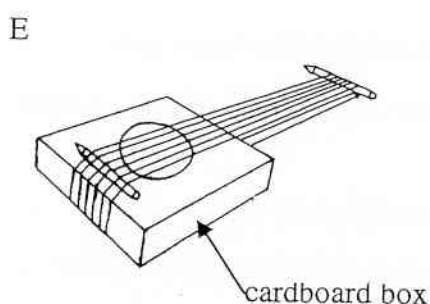


tin

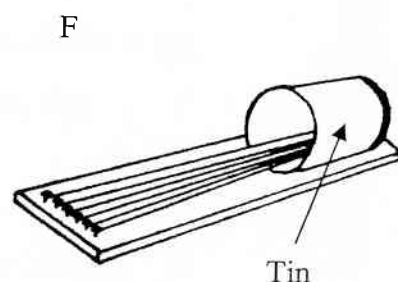


iron rod

clapper board



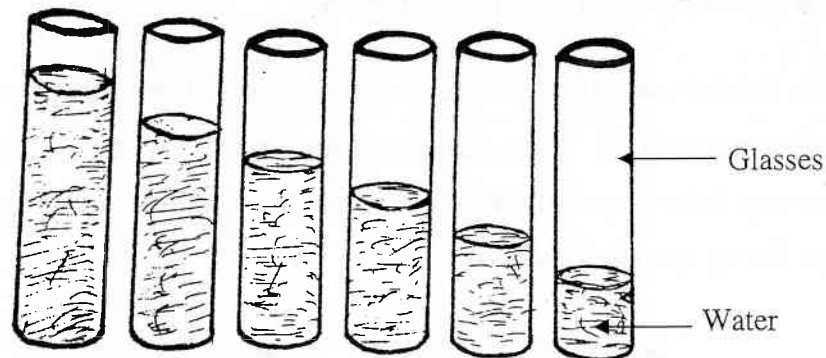
cardboard box



Tin

- i) a) State two positive (good) qualities that you can develop by making this kind of instruments. (M-01)
- b) Explain how did you operate these instruments to make various sounds. (M-03)
- c) Name two instruments, that you can find in your school music room, which produce sound as 'C' (M-01)
- d) Name instrument / instruments that you made which produce sound as in guitar and sitar. (M-01)

- ii) Another group of students made musical sound by beating the edges of glasses which were filled with water in different levels.



- Name a musical instrument that produce sound as above setup? (M-01)
 - What do you expect by filling water up to different levels.? (M-01)
 - How would you describe the sound which students produced rhythmically (M-01)
 - During this activity, students in the near by class room made non rhythmic sound. What do you call it. (M-01)
- B) At the end of the activity, following questions were given on the blackboard. Try to answer them. (M-06)

Fill in the blanks using following words.

(ear protectors , vibration , ear , natural , sound , sources of sound)

- Sound is produced due to
- Objects which produce sound is called
- Ear is the sense organ sensitive to
- The sound of a water fall is a sound.
- When you keep a cardboard cone on your, you can hear the sound around you clearly.
- can be used to protect ears by high frequency sounds.

02) Things with a mass and occupy space are known as matter.

- Other than matter, what could you find in the environment?. (M-1/2)
 - Give an example for that. (M-1/2)
- Water is a matter. Few ice cubes were put into a test tube and it was heated by the teacher?.
 - Write two observations, which you observed during the activity. (M-02)
 - Name three states of matter, according to this activity. (M-01)

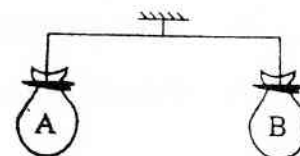
iii) Answer the questions using following substances.

(M-02)

(brick , soft drink , Carbon dioxide gas)

- a) Substances that does not have definite shape -
- b) Substance that does not have either a definite shape or definite volume -
- c) Substance which has definite shape and volume -
- d) Substance that does not have definite shape but has definite volume -

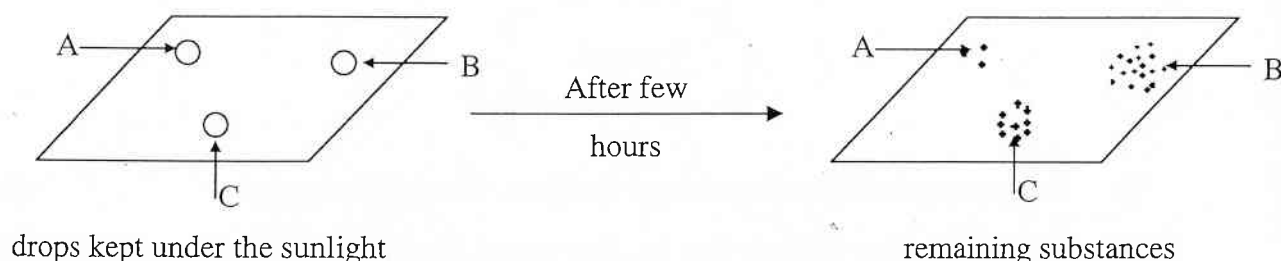
iv) This diagram shows the activity carried out by some students. A and B balloons are horizontal.



- a) State how balloons are balanced on the ruler. Give reason. (M-01)
- b) What will happen to the balanced when you make a hole in one balloon.? (M-01)
- c) Draw a diagram to show the position of 'A' and 'B' balloons after you make the hole. (M-02)
- d) What conclusion can you make at the end of the experiment?. (M-01)

03) A) Water on the earth exists in the states of solid, liquid and gas.

- i) Give two examples for the solid states of water. (M-01)
- ii) Most available liquid form of water is precipitation. States two ways of precipitation. (M-01)
- iii) Write another two forms of water that exist as liquid on the earth. (M-01)
- iv) States two examples where water contributes for the functions of living beings. (M-02)
- v) Teacher placed 3 drops of water obtained from three different reservoirs on a metal plate and allowed to evaporate under the bright sun light as shown in the figure.



drops kept under the sunlight

remaining substances

- a) According to the observation, identify the types of A, B, C water (M-1½)
 - b) How did you identify it? (M-1½)
- B) i) Draw a diagram to show the behaviour of rain when they fall on the earth. (M-02)
- ii) Write one method of water pollution. (M-01)

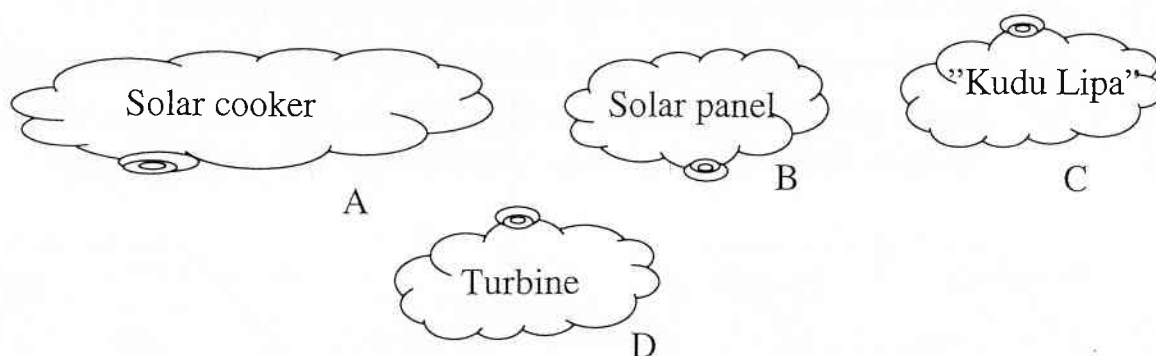
04) A) Put '✓' for correct and '✗' for incorrect statement given below. (M-1/2 x 6 = 3)

- i) Photosynthesis is carried out only in the green parts of a plant. ()
- ii) Sea Anemone can move here and there. ()
- iii) Non living things move only when applying the external force. ()
- iv) Oxygen in the inhaled air, reacts with the stored food to produce energy in the process of respiration. ()
- v) When germinating of green gram seeds, roots come out first. ()
- vi) Colourless lime water turns into off white by Nitrogen gas. ()

- B) i) States two habitats of plants. (M-02)
- ii) Living organisms can be divided into three groups such as animals, plants and micro-organisms.
- a) How do you define micro-organisms.? (M-01)
 - b) Name the instrument you use to observe micro-organisms. (M-01)
 - c) State two advantages of micro-organisms. (M-02)
 - d) State two disadvantages of micro-organisms. (M-02)

05) A) We need energy to carryout our day-to-day activities.

- i) What is energy? (M-01)
- ii) Given below are the instruments operated by using energy or matter.



- a) State energy or matter need to operate above instruments. using (M-02)
- b) Name the types of energy that can be obtained by operating A and B (M-01)
- c) Write two disadvantages when using 'C'. (M-01)
- d) State one advantage and one disadvantage of 'A'. (M-02)
- e) Name the instrument that should be connected to the 'D' when generating electricity in a power. (M-01)

B) Select the suitable word for the blank and underline.

- i) Coal, Petroleum oil obtained from the earth is called (biomass / fossil fuel)
- ii) Wind power stations are found in Hambantota and (Puttalam / Ratnapura)
- iii) Nuclear power is obtained by using (tidal waves / atoms)

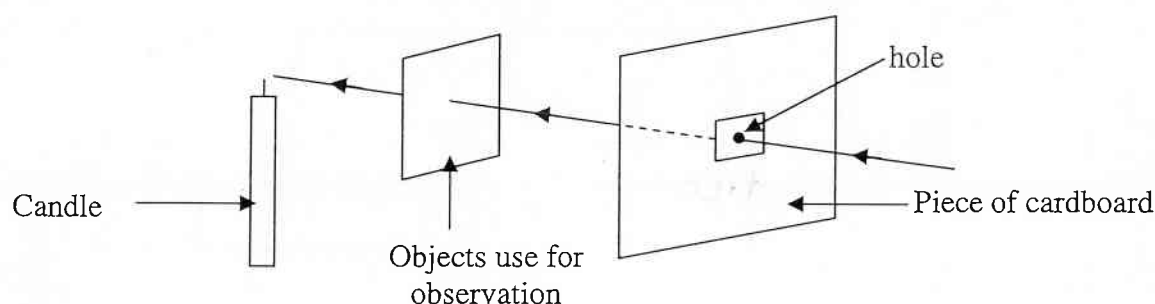
(M-1 x 3 = 3)

06) A) Light is needed to see things clearly. The main source which gives us light is the Sun.

- i) Categorize following things into luminous and non-luminous objects.

Lighted lamp , moon , planets

- ii) Following set up was arranged by the students to find how light travels through various objects.



Objects used by students are categorized and put into boxes as follows.

- A - Light and the flame can be seen clearly.
- B - Light can be seen but flame can't be seen clearly.
- C - Both light and flame can't be seen.

- a) Name two things which you can find in box 'A' (M-01)
- b) Suggest a suitable name for the things in box 'A' (M-01)
- c) In which box a piece of cardboard can be found. (M-01)
- d) Suggest a suitable name for things in box that mentioned in 'C' (M-01)
- e) How did they name the box 'B'? (M-01)

B) Match A and B. Write the letter on dotted line.

(M-04)

A

B

- | | | |
|------------------------------|-------|------------------------------|
| i) Light beam | | (a) Endoscope |
| ii) Light transmit well | | (b) Collection of light rays |
| iii) Need light | | (c) Clear water |
| iv) Observe interior of body | | (d) Photosynthesis |

07) A) The objects which attract magnetic substances are called "Magnets"

- i) Name two equipment made by using magnets. (M-01)
- ii) Explain how do you identify the poles of magnets when you are provided with an unmarked magnet. (M-02)
- iii) Draw 4 (four) shapes of magnets. (M-02)
- iv) State whether it is an attraction or repulsion in the following situation. (M-01)

(a)

N	S
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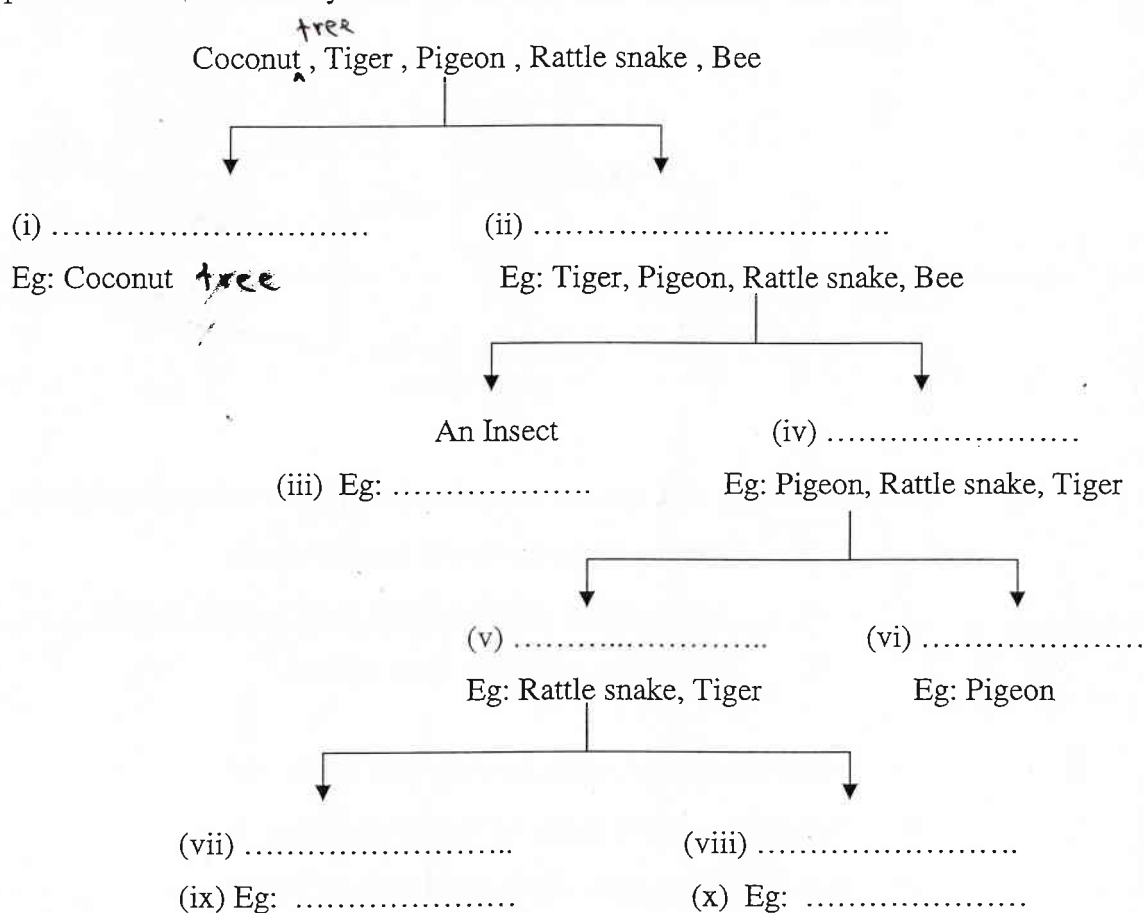
S	N
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 (b)

S	N
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S	N
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B) Complete the dichotomous key



(M-05)