

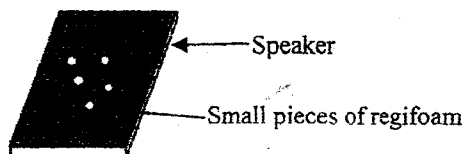
<p>Western Provincial Education Department - Colombo Educational Zone</p> <p>Western Provincial Education Department - Colombo Educational Zone</p> <p>Western Provincial Education Department - Colombo Educational Zone</p>		
<p>Second Term Evaluation - 2016</p>		
<p>6 ශ්‍රේණිය</p> <p>தரம் 6</p> <p>Grade 6</p>	<p>විෂය</p> <p>Science</p>	<p>පරා දින</p> <p>Two Hours</p>

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Part I

- Answer all questions
- Select the correct answer and underline it.

- Standard International unit for measuring mass,
 (1) centimetre (cm) (2) milligram (mg) (3) kilogram (kg) (4) gram (g)
- Which group of answers contain fossil fuels only,
 (1) coal, water (2) petroleum gas, coal
 (3) petroleum oil, bio mass (4) geothermal energy, bio gas
- Many substances are dissolved in sea water. What is the chemical compound which makes sea water salty?
 (1) magnesium chloride (2) sodium chloride (3) sodium sulphate (4) calcium carbonate
- A matter has following properties,
 • can flow
 • does not have a definite shape
 • does not have a definite volume
 What is the matter, which has the above properties?
 (1) liquid (2) gas (3) solid (4) non of the above
- What is not a common feature for all living organisms?
 (1) respiration (2) excretion (3) movement (4) photosynthesis
- The chemical that is used to identify carbon dioxide is,
 (1) magnesium hydroxide (2) sodium chloride (3) calcium hydroxide (4) calcium chloride
- Small pieces of regiform kept on a radio speaker moves up and down according to the musical sound. What can be the reason for this?



- movements due to wind (2) due to vibrations of the speaker
- movements due to nearby sounds (4) none of the above is true
- Gold and silver are widely used in making jewellery. Because,
 (1) texture and shine (2) shine and hardness
 (3) malleability and ductility (4) brittleness and elasticity

(9) What is the incorrect statement about "sound"?

- (1) ear is necessary for hearing
- (2) rhythemical sounds are known as noises
- (3) sound is produced by vibrations
- (4) objects that produce sound are called sources of sound

(10) Which group of answers contain 'translucent substances'.

- (1) glass, cardboard, tissue paper
- (2) oilpaper, tissue paper, decorative glass
- (3) cardboard, decorative glass, wood
- (4) colourless polythene, glass, metals

(11) Which is not a common feature of animals,

- (1) moving from one place to another
- (2) growth visibly stops after sometime
- (3) autotrophic
- (4) heterotrophic

(12) Which is not a use of microorganisms,

- (1) decomposing garbage
- (2) manufacturing yoghurts and cheese
- (3) separating fibre from coconut husks
- (4) spoilage of food

(13) What is the incorrect statement about energy and sources of energy?

- (1) Our main source of energy is the sun
- (2) dynamo can be rotated by the energy of blowing wind
- (3) hydropower stations are built in high levels
- (4) electricity can be generated from flowing water

(14) Ability of a substances to be drawn in to thin wires without breaking is called,

- (1) ductility
- (2) malleability
- (3) brittleness
- (4) hardness

(15) Water vapour was observed out side the beaker after sometime. What is the reason for that observation?

- (1) heat of the atmosphere
- (2) water vapour in the atmosphere
- (3) water evaporating to the atmosphere
- (4) ice turning in to water.



(16) Main raw materials in the photosynthesis are,

- (1) sunlight and water
- (2) green pigments (chlorophyll) and water
- (3) carbon dioxide and water
- (4) sunlight and green pigments (chlorophyll)

(17) Beams of head lights of a vehicle can be seen through 'fog'. This happens because,

- (1) air is opaque at that time
- (2) air is transparent at that time
- (2) air is translucent at that time
- (4) air is made up of particles.

(18) Precipitation occur in different 'modes'. What is not a mode of precipitation?

- (1) under ground water
- (2) sleet
- (3) hail
- (4) snow rain

(19) Instrument that is used to measure growth of plants is,

- (1) anemometer
- (2) auxanometer
- (3) spectrometer
- (4) rain guage

(20) What is the luminous object that you can see in the night sky?

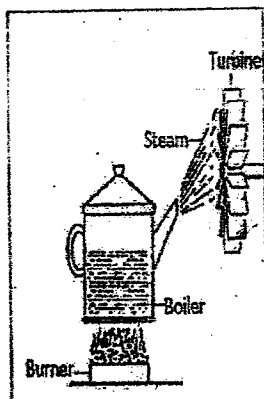
- (1) moon
- (2) planets
- (3) stars
- (4) sun

(20 x 2 = 40 marks)

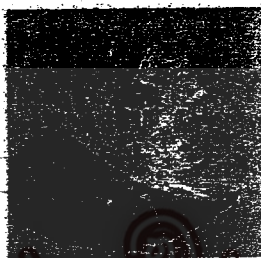
Part II

Answer the first question and four other questions. 16 marks are allocated for the first question and 11 marks for each of the others.

- (1) A student made a model turbine for his science lesson "Working different equipments using energy"

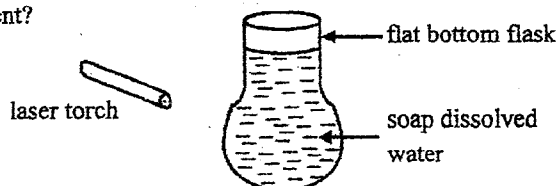


- What is the source of energy that he used for this 'model turbine'?
- What could be his observation when the water gets boiled inside the tin?
- Mention 2 energy sources that are used in the thermal power plants.
- Given below is a 'cooker' which works with an energy source that is common on earth. What is the specific feature of the inner walls of this cooker?



- Why does the temperature rise more in the water beaker kept inside the cooker than the water beaker kept outside?
 - What is the unit used in measuring temperature in day to day activities?
 - Write 2 other uses of the energy source mentioned here.
- (B) Put (✓) or (X) in the correct place.
- Things that give out energy are called 'sources of energy'. ()
 - 'Energy' is the ability to do work. ()
 - Water can be categorized into 4 groups according to their physical state. ()
 - Water which contains more salts is named as 'brackish water'. ()
 - Large amount of work can be done by flowing water. ()

- (2) We observe many things in the environment with the help of our eyes.
- What are the 2 main factors necessary for vision.
 - Object that emit light are called as?
 - Give 2 examples for the above mentioned objects.
 - Given below is an experiment that you did in the laboratory. What was your observation in this experiment?

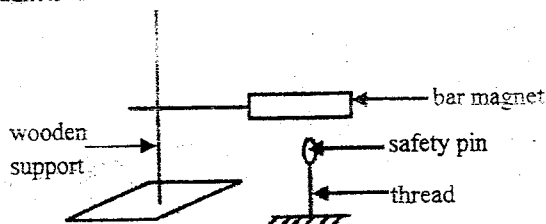


(1)

- (v) A student mentioned that this experiment can also be done using another material except soap dissolved water. What is that material?
- (vi) What are translucent substances?
- (vii) Give 2 examples for translucent substances.

- (3) (i) Different magnets are used in the laboratory. Draw and name 2 such magnets that you used in the laboratory.

(ii)



Given above is a model used by a student to demonstrate properties of magnets. What was the property of magnets that he used here.

- (iii) Name another item that he could have used except the safety pin.

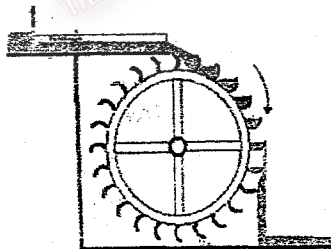
- (iv) Fill in the blank using proper words.

- (a) The two ends where the power of attraction is more are called
- (b) Some materials are to magnet and some do not.
- (c) A magnet which can move freely always lie towards direction.
- (d) Letter 'S' in magnets show direction.
- (e) The area around which the magnetism is spreaded is called
(south, north-south, magnetic field, repulsion, attracted, magnetic poles)

- (4) (A) Group of grade 6 student^s went on a field visit to study and observe the environment.

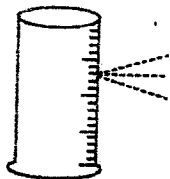
- (i) Mention 2 things that the teacher advised them to bring for the field visit.
- (ii) Living environment can be divided in to 2 main groups. What are they?
- (iii) Write two features of living organisms that they have **observed**.
- (iv) One student told that 'pupa' stage of butterfly belongs to non-living group. What is your 'idea' on this.
- (v) Write the reason for your answer.
- (vi) Following animals were observed in their field visit. Classify them using a dichotomous key.
rat snake, cock, earth worm, frog, guppy

- (5) A tin, bottle lids, small motor, small bulb, and some wires were used to make a 'model water turbine'.



- (i) What was done to generate electricity from the above model?
- (ii) What should you do to get more electricity from the above model?
- (iii) What is the name given to the place which produces electricity using this model?
- (iv) What is the name given to the "things" which do not occupy space or not has a mass?
- (v) Give 2 examples except what is mentioned here.
- (vi) Sri Lanka was affected with heavy rain in the previous months. Most of the places were flooded and many other damages were caused. Name 2 other dangerous incidents that happened due to these reasons.
- (vii) Write one human activity which can cause flooding.

- (6) (i) A wine glass, some rubber balloons, coconut leaves, bamboo pieces, a tin, 2 rupee coins were given to you. Draw 2 simple equipments that you can make with the items given above. (Sound generating equipments)
- (ii) What is the name given to the things which produce sound?
- (iii) How do they produce sound?
- (iv) Write 2 unrhymic sounds that you experience in the school environment.
- (v) What is the name given to those sounds?
- (vi) Mention 2 equipments which has 'membranes' to produce sound.
- (vii) Different animals have different ear lobes. What is the advantage that they have?
- (7) Water is the most abundant material/compound found in the bodies of living beings. Most of the biological activities need water.
- (i) Write 2 fields where people use water for their activities.
- (ii) State 2 human activities which causes water pollution
- (iii)



A measuring cylinder was used to measure a volume of water. Draw the correct way to measure the water level in your answer script.

- (B) Write a physical property of each of the following materials.

- A - Copper
- B - Diamond
- C - Rubber
- D - Glass
- E - Gold

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