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தென் மாகாணக் கல்வித் திணைக்களம்
Department of Education, Southern Province

අවසාන වාර පරීක්ෂණය - 2023 (2024)
ஆண்டிறுதிப் பரீட்சை - 2023 (2024)/ Final Term Test - 2023 (2024)

ශ්‍රේණිය தரம் Grade	Grade 6	SCIENCE	කාලය நேரம் Time	Two Hours

නම பெயர் Name ..... විභාග අංකය சுட்டிலக்கம் Index No. .....

Part - I

- **Underline the most appropriate answer.**

01. A characteristic which is ***not*** common for all organisms,

(1) Reproduction (2) Growth (3) Respiration (4) Photosynthesis

02. What is the most suitable device for clear observation of microorganisms in water?

(1) Telescope (2) Compound microscope (3) Hand lens (4) All above

03. An animal which is in danger of extinction due to its dependence on only one type of food item,

(1) Chaeta (2) Giraffe (3) Panda (4) Leopard

04. What is the most efficient type of electric bulbs?

(1) Filament bulbs (2) Florescent bulbs (3) CFL bulb (4) LED bulb

05. Rubber is used for manufacturing teats of infants and hand gloves. What property of rubber made it suitable for that purpose?

(1) Brittleness (2) Elasticity (3) Ductility (4) Smoothness

06. What is the percentage of water in earth that can be used for human consumption?

(1) Only 1% (2) Only 10% (3) Only 0.01% (4) Only 0.1%

07. What is the **Standard International** (SI) unit of measuring temperature?

(1) ^{0}C (2) K (3) ^{0}F (4) J

08. Select the **false** statement.

(1) A food web is formed by inter- connection between several food chains.

(2) The first link of a food chain is known as the producer.

(3) The second link of a food chain is **always** a herbivore.

(4) The third link of a food chain can be a carnivore or an omnivore.

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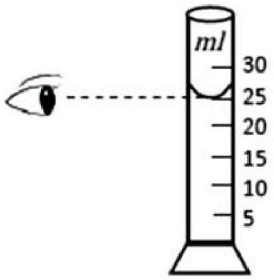
09. The animal which **does not** change the body temperature according to the environmental temperature,

(1) Man (2) Python (3) Frog (4) Lizard

10. What is the most correct volume of water in the measuring cylinder illustrated in the diagram given beside?

(1) 26 ml (3) 20 ml

(2) 25 ml (4) 30 ml



11. Several properties of magnets are given below.

(A) Magnetism is uniformly distributed throughout the magnet.

(B) Magnetism is higher at the poles of a magnet.

(C) Opposite poles of magnets attract with each other.

Out of above statements, the *true* statements is/are,

(1) Only A (2) Only B (3) Both B & C (4) All A, B & C

12. The objects that emit light produced by themselves are known as,

(1) Luminous objects (2) Non- luminous objects (3) Sources of light (4) Transparent objects

13. What is the source of energy used for generating electricity in Norochchole power plant?

(1) Energy of flowing water (2) Diesel (3) Coal (4) Sun

14. Which element of weather is stated as 12.5mm in a weather report?

(1) Temperature (2) Humidity (3) Speed of wind (4) Rainfall

15.  This standard symbol denotes,

(1) A fixed value resistor (3) A Light Dependent Resistor

(2) A variable resistor (4) A Light Emitting Diode

16. An up and down motion can be observed when hand drum is slightly tapped with some mustard seeds on its top. The conclusion that can be arrived with this observation is,

(1) Mustard seeds vibrate because of wind.
(2) Membranes that produce sound vibrate.
(3) Sound is produced by vibration of mustard seeds.
(4) The membrane vibrates because of vibration of mustard seeds.

17. The amount of matter in an object is known as,

(1) Mass (2) Weight (3) Volume (4) Density

18. Of the following, what is the most environmental friendly source of energy?

(1) Bio mass (2) Coal (3) Nuclear energy (4) Hydro- electricity

19. What is the test used for identifying the carbon dioxide gas released during respiration?

(1) Turning lime water into milky
(2) Turning soapy water into milky
(3) Turning colourless lime water into milky
(4) Turning colourless soapy water into milky.

20. Which of the followings is an example for sustainable use of energy sources?

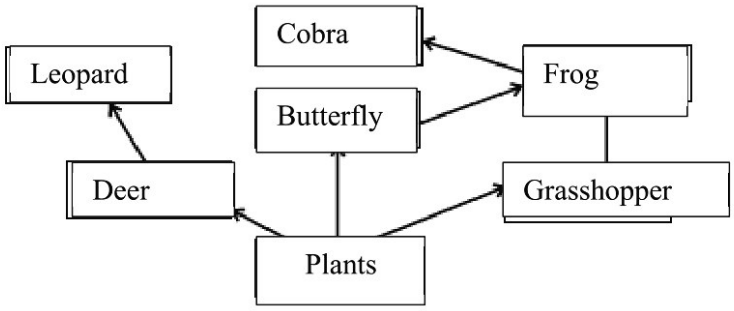
(1) Use of motor bicycles
(2) Use of personal vehicles
(3) Use of luxury vehicles
(4) Use of public transport services.

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Part - II

- **Question No. 1 is compulsory. Answer *Question 1* and *four other questions.***

1. Food relationships between several organisms that inhabit in a forest are given below.



i) What is called this food relationship?

ii) Mention two herbivores in this chart.

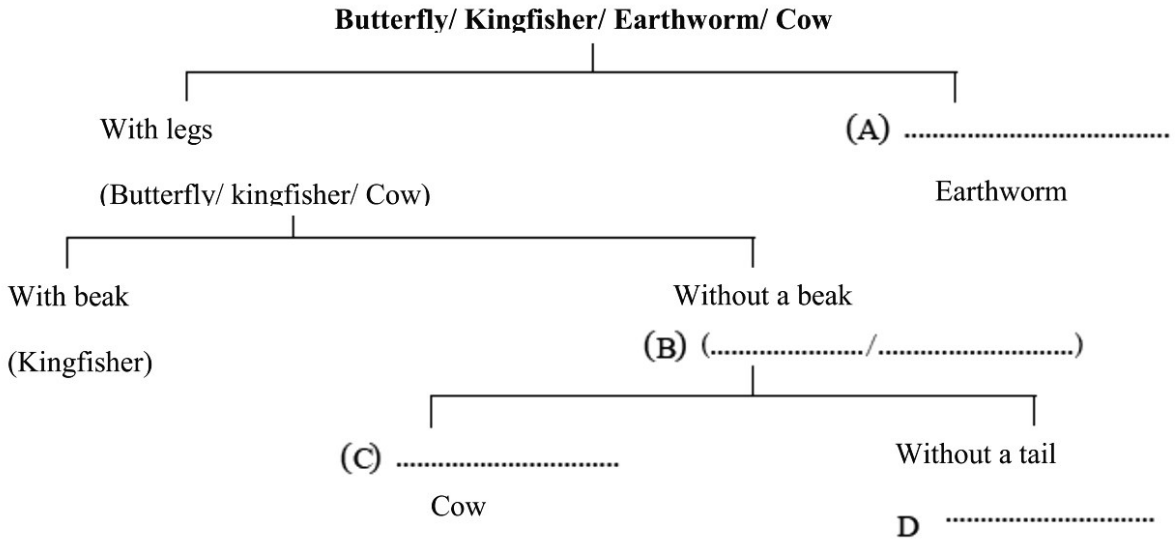
iii) Why are the plants in this chart known as producers?

iv) Define the term "food chain".

v) Write down a food chain with four links ***that can be seen in the above chart.***

vi) Give the reason why the number of deer in this forest **does not** increase unlimitedly.

vii) Complete the dichotomous key given below.

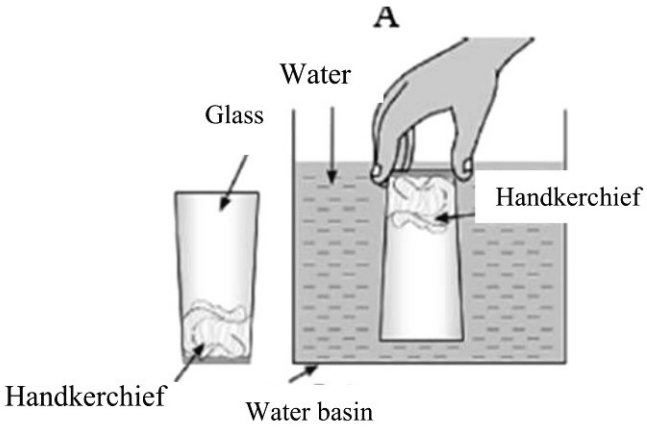


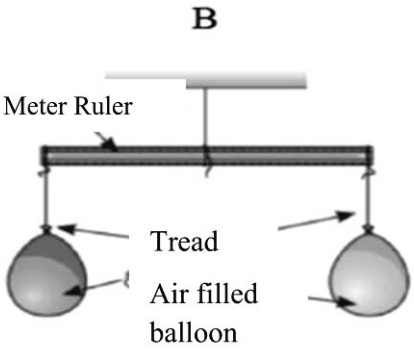
2. **(A)** Everything around us can be classified as matter and energy. Matter occupies space and energy does not occupy space.

i) Write down two common characteristics of matter.

ii) What is the state of matter without a definite shape but with a definite volume?

iii) Two practical activities done by two groups of Grade 6 students to study about behaviour of gases are given below. Write down the conclusions that can be arrived based on the observations of the two activities separately.





(B) Water is essential for existence of life and many other human activities.

i) Write down the three forms of water according to the physical states.

ii) Give an example for each state of water.

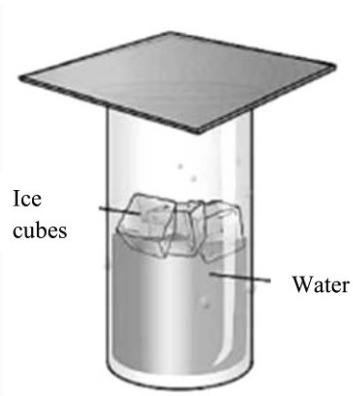
iii) What is meant by salinity of water?

iv) Mention the three forms of water according to salinity.

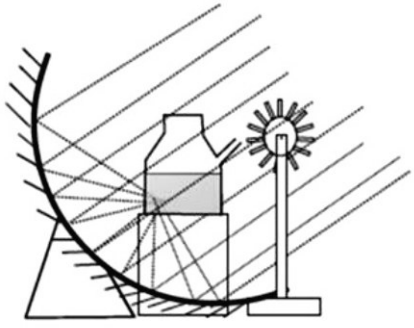
v) A set- up arranged by a student to observe states of water is illustrated beside.

a) Mention an observation that can be made after a short while.

b) Write down the change of state of matter takes place here.



3. **(A)** A set-up arranged in an exhibition to demonstrate that work can be done with energy is illustrated in the diagram given below.



i) Mention the source of energy that provides energy to heat the water container?

ii) Mention the two forms of energy given by that source of energy to the earth.

iii) Give two observations that can be made when water in the container gets heated.

iv) What are the two physical states of water that can be identified during the operation of the set-up?

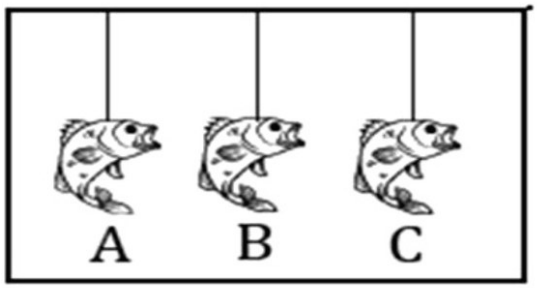
v) What is the device that should be connected to the turbine to produce electricity with this set-up?

(B) The objects that provide us light are known as sources of light.

i) Mention two artificial sources of light.
ii) Classify following substances based on transmission of light through them.
(Clean water, tissue paper, decorated glass, cardboard, plank of wood, colourless polythene)
iii) Write down two uses of light except vision.
iv) Mention an instance where optic fibre is used in the medical field.

4. (A) Three artificially made fish are hung using three strings in a fish tank kept in an exhibition. There is a magnet inside one of those three fish and a plate of aluminium is inserted in another one of them. The other fish out of those three fish bears a plate of iron inside it.
Observations given in the table below are made when a strong magnet is brought closer outside the glass wall of the tank.

Fish	When the north pole of the strong magnet is brought closer	When the south pole of the strong magnet is brought closer
A	Attraction	Attraction
B	Attraction	Repulsion
C	No change	No change



i) Name the fish with the aluminium plate inside it.
ii) Name the fish with iron plate inside it.
iii) Name the fish with the magnet inside it.
iv) Name the magnetic materials out of the materials given below.
Iron nail/ Brass nail/ copper wire/ coin/ safety pin

B) The diagram given below illustrates two sound generating instruments made by two groups for a science lesson.



i) Identify A and B and name them.
ii) Write down separately how A and B produce sound.
iii) Name another musical instrument which is similar in method of generation of sound to each of the musical instruments A and B.

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5. (A) Electricity is essential for a comfortable life. Yet, one must concern about safe and frugal use of it.

i) Mention two ways that contribute the frugal use of electricity.

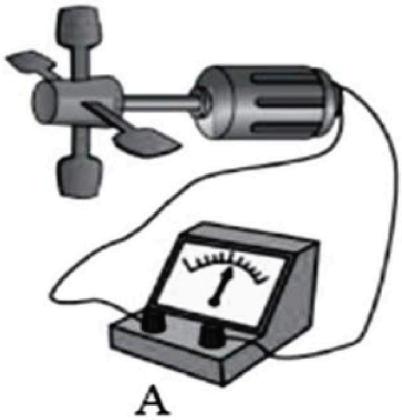
ii) Mention a way to prevent the accidents caused by electricity in day today life.

iii) A mini power station constructed by a student is given below.

a) What can be observed in **A** when a stream of water is directed on to yoghurt spoons in the way that the motor does not get wet?

b) What devices of a real power station are represented by the following parts of the mini power station?

1. Motor
2. Part with the yoghurt spoons.

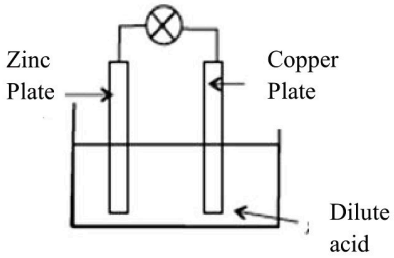


(B) A set –up of a simple cell is illustrated in the diagram given below. Answer the questions given in relation to it.

i) Give two observations that can be made when the set-up is operated.

ii) Mention two weaknesses of this cell.

iii) Mention a type of cell that is produced overcoming those weaknesses.



6. (A) Condition of a definite location of the atmosphere during short period of time is known as weather. The table given below shows some data collected by a group of Grade 6 students regarding weather.

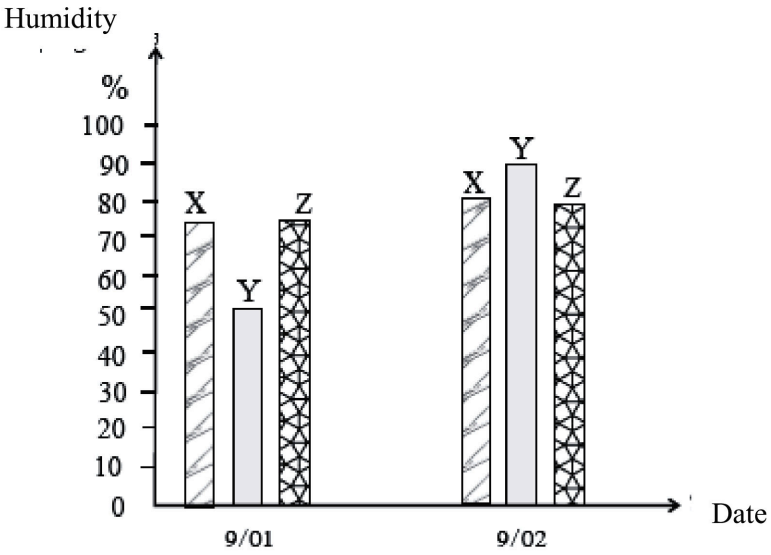
Date	Town	Temperature	Rainfall	Amount of water vapour in atmosphere
9/01	Galle	27^0C	15mm	75%
	Badulla	30^0C	0.1mm	50%
	Colombo	29^0C	0.8mm	75%
9/02	Galle	28^0C	14mm	80%
	Badulla	21^0C	0.1mm	90%
	Colombo	26^0C	1.0mm	80%

i) Which town has received **highest** rainfall during both days?

ii) From which town has the **maximum** temperature reported during both days?

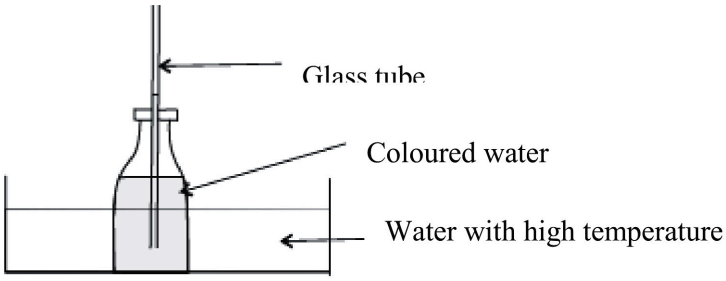
iii) Mention another element of weather which is not mentioned in the table above, yet can be used to predict weather.

The graph given below shows the way that the humidity of the towns changed during above two days.



iv) Name the towns denoted by letters X, Y and Z in the graph.
v) Find out the two towns with same humidity in relation to the graph.

B) The set –up given below can be used for demonstrating liquid expansion.



i) Mention an observation that can be made when the bottle with Coloured water is immersed in water with high temperature.
ii) What can be concluded by that observation?
iii) What is the device constructed based on this set –up?

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