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 Department of Provincial Education - NWP
 வடமேல் மாகாணக் கல்வித் திணைக்களம்
 Provincial Department of Education - NWP

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| Grade 6 | First Term Test - 2019 | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 5px; font-size: 1.2em;">34</td> <td style="padding: 5px; font-size: 1.2em;">E</td> </tr> </table> | 34 | E |
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| | | |
|---------------|--------------------|----------------------|
| Name : | Science - I | Index No..... |
|---------------|--------------------|----------------------|

| | |
|---|----------------------|
| Important ● Answer all the questions. | Time: 2 Hours |
|---|----------------------|

● **Underline the correct or most suitable alternative.**

01. The answer which contains only non living things is,

| | |
|-------------------------------|---|
| 1. Child, coconut tree, brick | 2. Brick, pen, eraser |
| 3. Water, bicycle, parrot | 4. Coconut tree, mango tree, long beans creeper |

02. Which water is most suitable to remove dirt in clothes well,

| | | | |
|---------------|----------------|--------------|---------------|
| 1. Well water | 2. River water | 3. Sea water | 4. Rain water |
|---------------|----------------|--------------|---------------|

03. Select which method can be used to observe micro - organisms.
 1. Observing water outdoors by the naked eye.
 2. Observing rotten water by a hand lens.
 3. Observing water mixed with compost by a lens.
 4. Observing rotten water by a compound microscope.

04. Most number of organisms which can be seen at once by a hand lens is,

| | | | |
|-------------|---------------|-------------|-----------|
| 1. Crickets | 2. Millipedes | 3. Termites | 4. Snails |
|-------------|---------------|-------------|-----------|

05. The answer which contains a plant, an animal and a micro - organism respectively is,

| | |
|------------------------------|--------------------------|
| 1. Banana, beetle, termite | 2. Lotus, toad, bacteria |
| 3. Termite, bacteria, banana | 4. Banana, toad, termite |

06. Can't be observed a movement or locomotion is,

| | | | |
|----------------|-----------|--------------|------------|
| 1. Sea anemone | 2. Mimosa | 3. Earthworm | 4. Bicycle |
|----------------|-----------|--------------|------------|

07. The main quality of an autotrophic organism is,

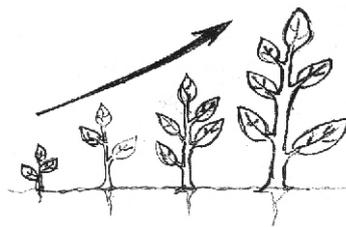
| | |
|----------------------------|------------------------|
| 1. Doing of respiration | 2. Growth |
| 3. Doing of photosynthesis | 4. Doing of locomotion |

08. The characteristic used to classify animals as herbivorous and carnivorous is.

| | |
|-----------------------|-----------------------|
| 1. Feeding mechanism | 2. Type of food |
| 3. Mode of locomotion | 4. Living environment |

09. The characteristic shown in given figure is,

1. Growth
2. Reproduction
3. Nutrition
4. Respiration



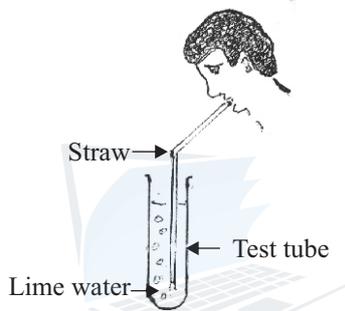
10. A type of ground water is,

1. Oceans
2. Rivers
3. Springs
4. Ponds

11. A disease caused due to not drinking sufficient amount of water is,

1. Constipation
2. High blood pressure
3. Diabetes
4. Cold

12. Figure given below is an activity done by a student. Select the observation and conclusion of this practical.



| Observation | Conclusion |
|--|-------------------------------------|
| 1. Not change the colour of lime water | Exhaled air contains oxygen |
| 2. Colourless lime water changes to milky colour | Exhaled air contains oxygen |
| 3. Colourless lime water changes to milky colour | Exhaled air contains carbon dioxide |
| 4. Not change the colour of lime water | Exhaled air contains carbon |

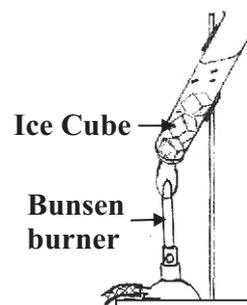
13. Given below are four statements about matter and energy. Select the correct statement.

1. Air has not a mass, so it is an energy.
2. Light do not occupy space and it has not a mass. So it is an energy.
3. Sound occupys space, it is an energy
4. Brick does not occupy space and has a mass, so it is a matter

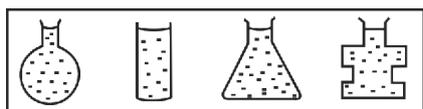
• Use following figure to answer the questions No. 14 and No. 15.

14. The correct order of obtaining observations of above practical is,

1. Ice → water vapour → liquid water
2. Liquid water → ice → water vapour
3. Water vapour → liquid water → ice
4. Ice → liquid water → water vapour

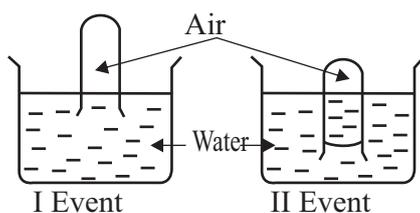


15. What is the factor of flame affected to take place above changes.
1. Heat
 2. Temperature
 3. Light
 4. Contact
16. On rainy days there can be seen formation of water inner surfaces of closed glasses of a vehicle. The reason for it is.
1. Presence of water vapour in the atmosphere of vehicle
 2. Leakage of rain water through glasses
 3. Deposition of dust on glasses of vehicle
 4. Do not move air outer from vehicle
17. The correct statement about respiration of plants and animals is,
1. Animals do respiration, plants do not do respiration
 2. Respiration is doing of inhaling and exhaling
 3. Plants and animals show respiratory movements
 4. Plants and animals produce energy from the respiration
18. Following figures are given, filled with same volume of water into the containers of different shapes.



Most suitable character illustrated from it is,

1. Water has a definite shape
 2. Water can be added to any container
 3. Water has the shape of the container
 4. Water remains in liquid state
19. Following is a figure of an activity done to find out characteristics of gases.



The conclusion of it is,

1. Presence of air inside the test tube
 2. Water did not enter the test tube
 3. Pushing of test tube into the water is difficult
 4. Air occupies space
20. What is the instant observation when an ice cube suddenly falls into cold water?
1. Suddenly decreases the temperature of water
 2. Ice cube gone deep of water and then float on water
 3. Evaporation of water in the container
 4. Cooling of water and container rapidly

Part - II

01. A. Given below is a list of equipments which carries by grade six students for their field trip.
A hand lens, petri dish, Prickle, forceps, scissors,
a small bottle, Binocular, a book and a pencil

Complete the following table in relation to the equipments given above and instances of using them.

| Instance | Equipment |
|--|-----------|
| 1.Insert a grass hopper into bottle | |
| 2. Find out the number of legs in beetle | |
| 3.Deatach a leaf from a plant | |
| 4. Observing a bird who is flying | |
| 5. Collecting organisms in soil | |

(05 m)

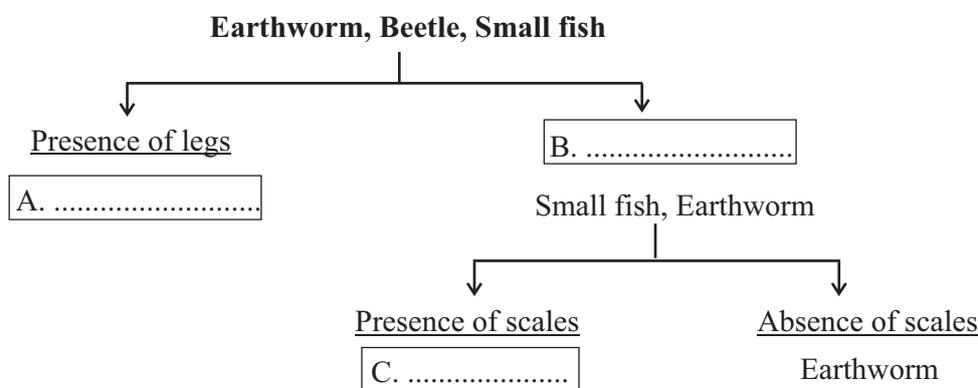
- B. i. Things which investigate in the environment can be divided as living things and non living things. Write two characteristics of living things that can be used for above classification. (02 m)
- ii. Teacher says micro organisms cannot be observed during the investigation. Explain the reason for this. (01 m)
- iii.A grasshopper on the plant leaf is similar to it's colour. What is the feature that can be used to name grass hopper as an animal? (01 m)
- iv. Teacher says, the animals show heterotrophism. What can you understands by 'heterotrophic'? (01 m)

- C. i. Given below are some animals which were observed in the field trip.
Earth worm, Butterfly, White ant, Beetle, small fish
Complete the following table according to the methods of locomotion of animals.

| Animal | Method of locomotion |
|------------|----------------------|
| Butterfly | |
| White ant | |
| Small fish | |

(03 m)

- ii.Fill in the blanks in dichotomous key given below relevant to the animal classification.



02. Given below are some information recorded in an environmental observing diary.

January 01 - Today is a busy day, I cannot do any thing due to noise of electric equipment which used to repair the roof.

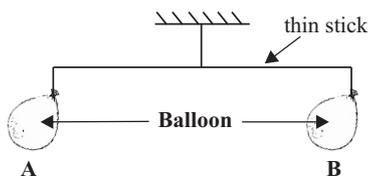
January 02 - An ice cube taken from the refrigerator is melted.

January 03 - Some inflated balloons blast with a sound in the day time.

January 04 - A butterfly sucking nectar from a rose and a rat is swallowed by a rat snake can be observed

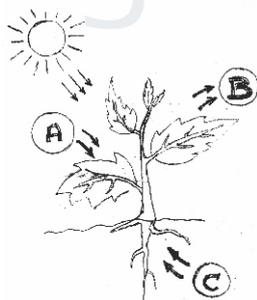
- i. a) Write two types of energy related to the information of January 1st. (02 m)
- b) Write two reasons to name them as energy. (02 m)
- ii. Write two forms of matter related to the instance of January 2nd. (02 m)
- iii. a) What is the type of energy affected to the blast of balloons in January 3rd? (01 m)
- b) Write two equipments which can be used to produce above energy? (02 m)
- iv. Write feeding mechanisms of butterfly and rat - snake according to the observations of January 4th. (02 m)

03. i. The diagram below shows the setup prepared to demonstrate the feature of matter.



- a) What is the reason to remain A - B rod in equilibrium.(01 m)
- b) Write two observations which can be obtained when the balloon 'B' is holed (02 m)
- c) Draw a diagram to show the position of A - B rod after holing balloon 'B' (02 m)
- d) What property of matter can be shown by the activity given above? (01m)

ii. The Diagram given below shows the photosynthesis process in plant leaves



- a) Write A and B gases respectively which absorbed and released by leaves. (02m)
- b) What is the component absorbed from soil to the roots in this process? (01m)
- c) What is the type of energy required for this process? (01m)
- D) Write an advantage which can be gained by humans through this process? (01m)

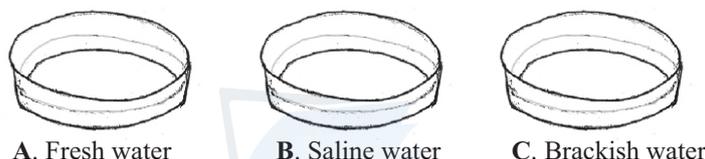
04. Given below are some substances used to find out the properties of matter during an activity of grade 6 student. [Iron nail, Metal sheet, wheat flour, piece of chalk, sand, coal, rubber band, Iron wires, copper wire, small amount of talcum powder]

- i. Write a substance smooth in nature when touched. (01m)

- ii. Write a substance being subjected to break when a force is applied . Write the physical property of it ? (02m)
- iii. a) Write a substance with property of ductility? (01m)
- b) Write an example of using above property in daily life? (01m)
- iv. a) State the property need to produce teat and gloves? (01m)
- b) Select the substance from the list with physical property which given above? (01m)
- v. a) Select the substance with the ability to be drawn into a wire among rubber bands iron wires and metallic sheets. (01m)
- b) Write an instance of using above property. (01m)
- vi. a) Write an instance of using sand papers. (01m)
- b) What is the physical property of sand papers that can be used for above instance? (01m)

05. The salinity of water differs according to the source of water.

Equal volumes of water samples obtain from a lake, sea and lagoon are added to the petri dishes and exposed to heavy sun light.



- i. a) Name the petri dish which gets the highest amount of salt deposition after evaporation of water. (01m)
- b) What component can be included in highest among of that deposition. (01 m)
- ii. What is the reason to expose petri dishes to heavy sunlight? (01 m)
- iii. Suggest another strategy which can be done instead of exposing to sunlight? (01 m)
- iv. Name water samples with highest mass and lowest mass respectively? (01 m)
- v. Write water samples with marine water and brackish water using letters A, B and C (02 m)
- vi. Explain what is salinity according to your conclusions? (02 m)
- vii. Which sample of water is most suitable to use as a flavour when cooking? (02 m)

06. i. Water exists as solid, liquid and gas on Earth.

- a) Write two instances of water exist as solid on earth. (02m)
- b) Precipitation is the method of water comes to the natural environment. Write two forms of precipitation? (02m)
- ii. Addition of waste materials to water till it becomes unsuitable for consumption is known as water pollution.
- a) Write two human activities that cause water pollution? (02m)
- b) State two differences between polluted water and pure water. (02 m)

| Polluted water | Pure water |
|----------------|------------|
| 1. | |
| 2. | |

- c) Write an illness which can be caused by consumption of polluted water? (01 m)
- d) Write two good habits which can be followed while consumption of water in domestic usages? (02 m)

07. You have assigned to design a poster to give the message to minimize water wastage.
- i. Write two places where water wastage can be observed in your school? (02 m)
 - ii. Write a reason to waste water in above places? (01 m)
 - iii. Write two strategies which can be used to prevent water wastage in above places? (02 m)
 - iv. Write two differences that can be seen in plants at places where water wastage taken place and plants at other places? (02 m)
 - v. The mosquitoes that can be bred due to disposition of waste water in place to place. Write a disease that can be caused by mosquitoes? (01 m)
 - vi. Write two activities which can be followed by your school to prevent from diseases caused by mosquitoes? (02 m)
 - vii. Write a suitable statement for your poster (01 m)



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