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மாகாணக் கல்வித் திணைக்களம் - வட மத்திய மாகாணம்

DEPARTMENT OF EDUCATION – NORTH CENTRAL PROVINCE



Grade

6

SECOND TERM TEST - 2019

SUBJECT - **Science**

School :

Name of the Student/ Index No :

Time : 2 hrs.

Part - I

- Answer all the questions.
- Underline the most appropriate answer.

1. Select the answer that includes only living organisms.

- betel, earth worm, pencil
- flower plant, betel, earth worm.
- train, flower plant, betel

2. The International standard unit for mass is,

- Milligram
- Gram
- Kilogram

3. Consumable percentage of water on earth is,

- 0.01%
- 2.58%
- 97.4%

4. An example for biomass is,

- Coal
- Firewood
- Crude oil

5. The process that is used to produce salt using sea water is by,

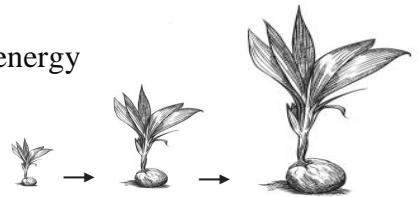
- Heating
- Vapourizing
- Condensation

6. Not a method that is used to produce electricity in Sri Lanka,

- Fossil fuels
- Flowing water
- Nuclear energy

7. A feature of living organism shown in the figure is,

- Reproduction
- Growth
- Nutrition



8. A matter cannot be converted easily in to solid, liquid or gas is,

- Water
- Wax
- Iron

9. The correct classification of water, based on the availability,

- precipitation, surface water, ground water
- solid, liquid, gas
- marine water, fresh water, brackish water

10. The feeding mechanism of butterfly is,

- Chew and swallow
- Swallow without chewing
- Sucking juice

11. A musical instrument which produces sound same as 'Thabla' is,

- i. Sitar
- ii. Violin
- iii. Rabana

12. Select the correct statement,

- i. Microscope can be used to observe interior parts of the body.
- ii. There are instances that use optical fibers to transmit messages.
- iii. Light cannot be produced artificially.

13. The organism, of which the growth is visible during the entire life span is,

- i. Ant ii. Sea Anemone iii. Undupiyaliya

14. An artificial sound ,

- i. Sound of wind
- ii. Sound of birds
- iii. Sound of the school bell

15. An example for translucent object is,

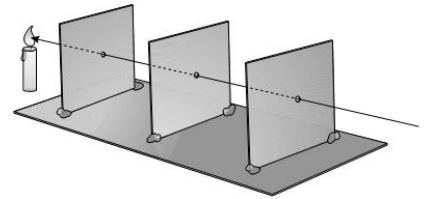
- i. decorative glass. ii. thin piece of glass iii. coloured polythene

16. Out of the energy sources, an energy source that can be used frequently in future is,

- i. Fossil fuel
- ii. Sun
- iii. Coal

17. This experiment is done,

- i. To show the light rays travelling through different objects.
- ii. To show the light rays travelling in straight line path
- iii. To explain matter and energy



18. What are the instances of attractions between two magnets?



(a)



(b)



(c)

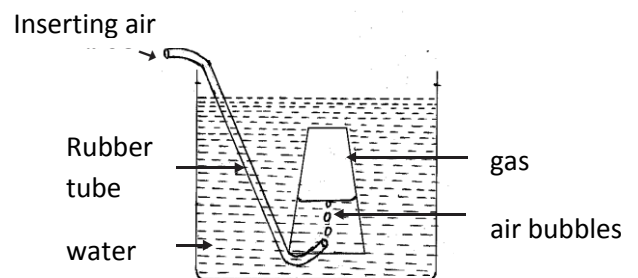
- i. Only 'a' and 'b' ii. Only 'b' and 'c' iii. Only 'a' and 'c'

19. An equipment without a magnet is,

- i. Speaker ii. Motor iii. Immersing heater

20. A student plans this experiment to show the features of gas. What is the conclusion taken by the observation?

- i. The exhaled gas contains carbon dioxide
- ii. Gas occupies a space
- iii. Air occupies a mass

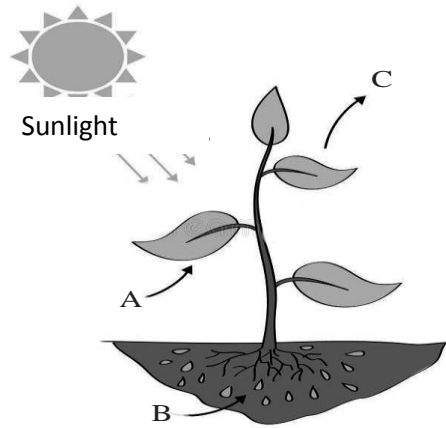


(2 x 20 marks)

Part - II

- Answer 05 questions by selecting question No 01 and any 4 other.
- 12 Marks for each question.

(01)A. The diagram below shows the process of producing food in a plant.



- i. What is the name of this process? (01 mark)
-
- ii. What is the gas C, that helps respiration of organisms? (01 mark)
-
- iii. Which letter denotes the exhaled gas in respiration of organisms? (01 mark)
-

B. Following were observed by a group of students in a field trip.

(water, rocks, earth worm, light, air, sound, Jak tree)

- i. Write 02 laboratory equipments that should be taken in a field trip? (02 marks)
- 1.....
- 2.....
- ii. Write an example for matter and energy in the above mentioned environment. (02 marks)

Matter	Energy
1.	1.

C. Water is the most essential natural resource in the earth from the beginning of life to the present day.

- i. Write 02 importance of water for human activities. (02 marks)
-
-
- ii. Write 02 ways of water pollution. (02 marks)
-
-

iii. What is the type of water with the highest mass in equal volume according to the salinity of water?

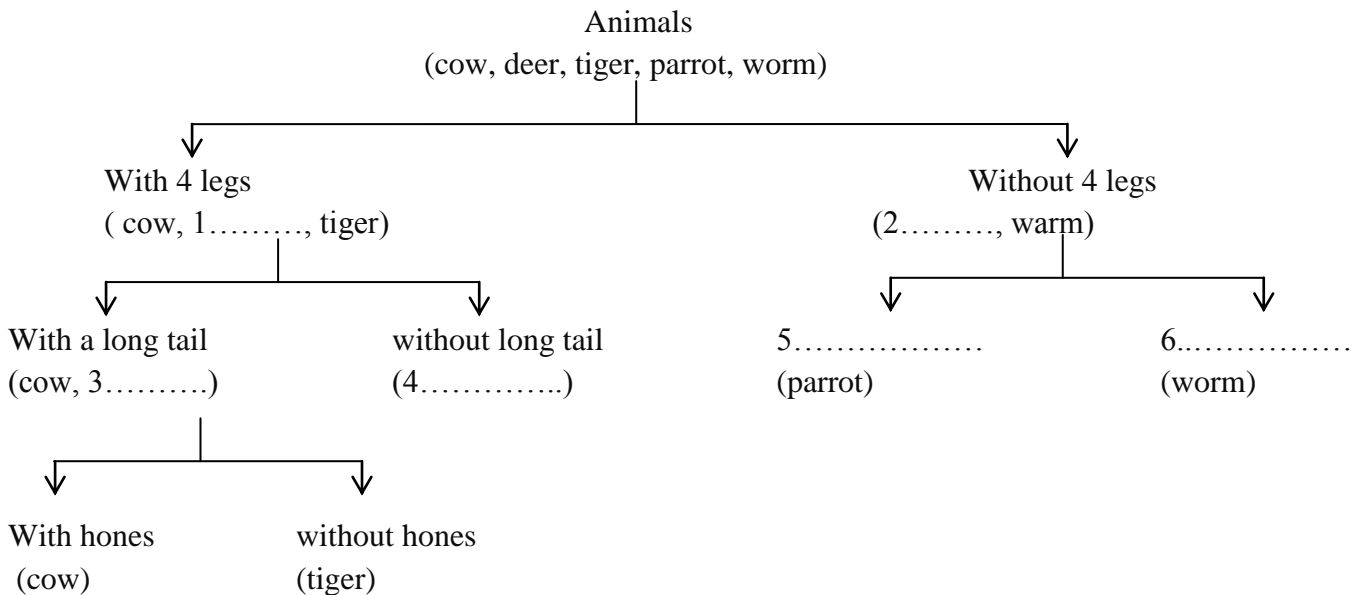
..... (01 mark)

(02) If the statement is correct put (✓) mark and if the statement is incorrect put (✗) mark in the space given.

- i. Green plants are heterotrophic. ()
- ii. Steam is the gaseous state of water ()
- iii. The amount of matter in an object is called its volume ()
- iv. A magnet can be used to separate small pieces of iron and Aluminum. ()
- v. Entertainment can be gained by playing radio in high volume ()
- vi. Triple beam balance is used to measure a certain mass in the laboratory ()
- vii. There are some instances where light is used as signals. ()
- viii. Plant and animal materials that can be used as fuels are known as bio mass ()
- ix. Petroleum oil is an energy source that rapidly gets exhausted. ()
- x. Water pollution is, collection of pollutants to water up to the level of inability to consume ()
- xi. The process that produces energy in the body is called nutrition. ()
- xii. It is better to plan the house to enter natural light every possible time. ()

(1 × 12=12 marks)

(03)A. Complete the dichotomous key shown below.



(1 × 6 =6 marks)

B. Match the most suitable answer in part “B” for the statement in part “A” and write the relevant letter.

A

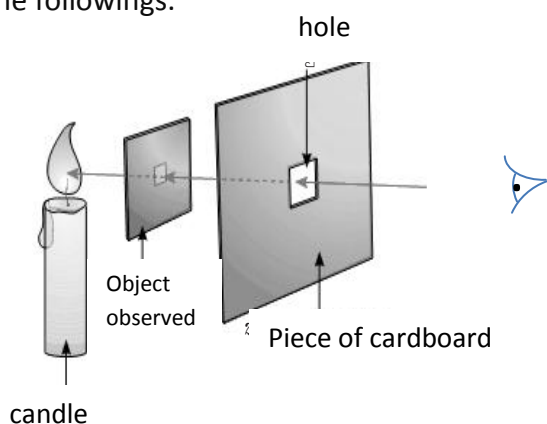
- i. A place with brackish water. (.....)
- ii. An example for solid state of water (.....)
- iii. Water retaining in tanks/reservoirs (.....)
- iv. A place with marine water (.....)
- v. Mostly used as drinking water (.....)
- vi. The way water is existing in the atmosphere (.....)

B

- a. ground water
- b. water vapour
- c. surface water
- d. lagoon
- e. snow
- f. ocean

(06 marks)

(04)A. A student used the setup below to observe the way light transmits through 03 materials. He observed the followings.



- 01st material - The flame and light can not be seen.
- 02nd material - The flame and light are clearly seen.
- 3rd material - The flame can not be seen clearly, but light can be seen.

i. Classify the above materials as transparent, translucent and opaque according to the above observation. (03 marks)

- 1st material -
- 2nd material -
- 3rd material -

ii. Name 02 luminous objects and 02 non luminous objects. (04 marks)

- | | |
|------------------|----------------------|
| luminous objects | non luminous objects |
| | |
| | |

B. Fill in the blanks using suitable words given in brackets.

(light rays, A blub, sun, light, light sources)

The main object that gives light to us is (i)..... Such objects are called

(ii)(iii) can be considered as artificial source of light. To view any object in the environment, it's needed the both factors, (iv)..... and eye. A beam of light is formed by a collection of (v).....

(1 ×5 =5 marks)

(05)A. Following materials have been supplied by the science teacher to students for an activity related to magnets.

- A bar magnet with marked poles
- A bar magnet without marked poles
- Iron nail
- Copper wire

Repulsion observed, when a student put closer the north pole of the pole marked magnet to a certain pole of magnet without marked poles.

- i. What could be the certain pole of the magnet without marked poles? (02 marks)
.....
- ii. Which material is attracted to the both sides of pole marked magnet? (01 mark)
.....
- iii. In which instruments is the bar magnet used? (01 mark)
.....
- iv. Name the following magnets. (02marks)



.....

.....

B. We can hear various sounds in the environment.

- i. What is the name that we use for the objects that produce sounds? (01 mark)
.....
- ii. How the sound is produced? (01mark)
.....
- iii. Write two irregular sounds you hear from the environment.
.....
..... (02 marks)
- iv. By which name is the irregular sounds identified? (01mark)
.....

v. Write a musical instrument that produces sounds by vibration of strings.

(01 mark)

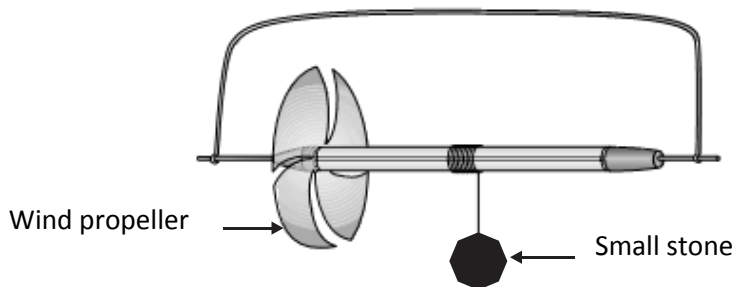
.....

(06)A. Select the most suitable word for the blank given and underline it.

- i. The amount of matter in any object is called..... (volume / mass)
- ii. (Water vapour / Ice) is a solid matter and water is a liquid matter.
- iii. (Liquid / Solid) has a definite shape and definite volume.
- iv. The nature felt to hands when touching a material is (brittleness/texture)
- v. Gold is used to prepare jewellery due to its properties of malleability and
(ductility / elastic nature)
- vi. A certain volume of liquid can be measured in laboratory by
(Ignition tube/ measuring cylinder)

(06marks)

B. A step up made by a grade 6 student to show that work can be done by energy is shown below.



i. How does the energy receive to carry the small stone?

.....

(01mark)

ii. What change has to be made in wind propeller to carry a much larger stone?

.....

(02marks)

iii. How are fossil formed?

.....

.....

(02marks)

iv. Write one task that can be done by wind power?

.....

(01mark)