

## Department of Education - Western Province

### Year End Evaluation - 2013

1274

Grade 6  
-Science

Name / Index No : .....

Time : 2 Hours

#### Part I

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

01. What is the most suitable instrument to observe a bird sitting on a tree?  
(1) a microscope      (2) a prism binocular      (3) a telescope      (4) a hand lens

02. What is the group of following organism, according to the food it takes?

- (1) a herbivore      (2) an omnivore  
(3) a carnivore      (4) an insectivore



03. An organism shows following features.

(A) having a stream-lined body shape

(B) gills are present for respiration

The above organism can be,

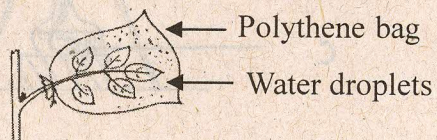
- (1) crab      (2) duck      (3) tuna      (4) frog

04. What are the standard units of measuring mass and length ?

- (1) kg , m      (2) g , m      (3) KG , M      (4) Kg , M

05. The following diagram shows, a plant leaf is covered with a polythene bag and placed the set up under direct sunlight. Water droplets could be seen on the polythene bag after 30 minutes. This phenomenon can be,

- (1) vaporization      (2) condensation  
(3) evaporation      (4) transpiration



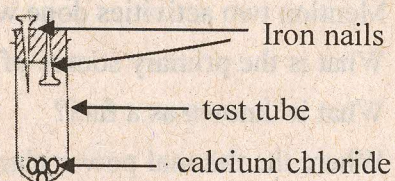
06. The earth, moon and sun lie in a certain way in a solar eclipse.

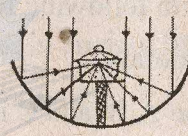
Find the correct sequence of them.

- (1) moon, earth and sun      (2) earth, moon and sun  
(3) sun, moon and earth      (4) sun, earth and moon

07. Calcium chloride is added to the following experimental set up, which is used to find factors affect rusting of iron. What is the purpose of adding calcium chloride?

- (1) to absorb water vapors  
(2) to absorb Oxygen  
(3) to absorb carbon dioxide  
(4) to absorb Nitrogen



08. The constituent layers of earth in sequence  
 (1) crust, mantle, core (2) core, crust, mantle  
 (3) crust, core, mantle (4) mantle, core, crust
09. A character of the environment which could not be seen in a drought situation,  
 (1) cracks on the ground (2) brightly shining sun  
 (3) presence of dried up stems without leaves (4) full of clouds in the sky
10. A way of not entering water to the water cycle is/ are  
 (1) vaporization of water from water bodies (2) evaporation of water from the earth  
 (3) respiration of animals (4) production of food in plants
11. Kaneru (*Nerium*) is ,  
 (1) an epiphytic plant (2) a xerophytes plant  
 (3) an aquatic plant (4) a mangrove plant
12. Which one of the followings has compound leaves?  
 (1) orchid. (2) curry leaves (3) banyan (4) mango
13. What is the energy component in solar energy which is used by this apparatus for cooking?  
 (1) potential energy (2) heat energy  
 (3) light energy (4) all above
- 
14. The process which contributes to the environmental pollution most when generating electricity is?  
 (1) combustion of fuel (2) using solar cells  
 (3) using wind power (4) using nuclear fuel
15. A reducing agent of rusting iron is,  
 (1) lime juice (2) soap (3) vinegar (4) salt
16. Select the plant with viviparous fruits.  
 (1) manda (2) vetekeiya (3) mango (4) hiranadeththa
17. A plant with single cotyledon in the seed is,  
 (1) jack (2) mango (3) coconut (4) rubber
18. Human body temperature is,  
 (1) 37 ° C (2) 38 ° C (3) 34 ° C (4) 35 ° C
19. The most abundant gas in the atmosphere is,  
 (1) Oxygen (2) Nitrogen (3) carbon dioxide (4) Helium
20. Which energy resource produce higher energy immediately?  
 (1) running water (2) wind  
 (3) biomass (4) nucleus in atoms

## Part II

• Answer question No 01 and four other questions.

01. Sunil, Nimal and Kamal were making a drama script on natural disasters, given by their science teacher. Some parts of dialogues included in the drama script are given below.

**Sunil's script :-** " Oh! What on earth is happening? Water is moving towards the sea. It is shrinking. There are no waves either. Sea bed is getting bare open. Everyone is running towards the sea. I myself also run."

**Nimal's script :-** "Hurry up! Hurry up! The drain in front of our house has also become muddy. There are some cracks in the school building. Muddy water is seeping from the hill."

**Kamal's script:-** " Each and every time I blow on my own way. You may say that I'm stubborn; I'm vicious; I'm destructive. This is not my fault. I can not control my invasion. It is due to the changes that occur in atmosphere. You have to be aware to minimize the damage caused by me."

- I. What is known as a natural disaster?
- II. Identify each natural disaster illustrated by Sunil, Nimal and Kamal and write them respectively.
- III. Write down a factor which cause the disaster mentioned in Sunil's script.
- IV. Mention the year and date which brought a big damage to Sri Lanka by the natural disaster related with Sunil's script?
- V. Which area in Sri Lanka is under the risk of being subjected to condition mentioned in Nimal's script ?
- VI. Mention a human activity which causes directly for having droughts.
- VII. For which province do condition mentioned in Kamal's script is affected most?
- VIII. Mention two methods to avoid accidents from lightning strikes.
- IX. Which month is reported as the highest frequency of accidents by lightning strikes in Sri Lanka?
- X. State one major reason which causes flood in urban areas?
- XI. Mention a way of minimizing the risk of a natural disaster.
- XII. State four essential things that should be included in pre-prepared carrying bag during a natural disaster
- XIII. Mention what is measured by using the following instruments.  
(a) anemometer (b) rainguage (c) barometer (d) wind vane

02. (A) Select the correct substance which matched with the given property and connect .

- |  |           |
|--|-----------|
| I. a brittle substance                 | wet clay  |
| II. a transparent substance            | plastic   |
| III. a substance which show plasticity | sulphur   |
| IV. a malleable substance              | polythene |
| V. a heat insulator                    | copper    |

- (B) If below given statements are correct mark (✓) and if not mark (×)
- I. When you put water into a vessel with coconut oil water floats on coconut oil ( )
  - II. Wind is a source of energy ( )
  - III. There is a proboscis to suck juices for grass hoppers ( )
  - IV. Bear is a herbivorous ( )
  - V. Red ant is a terrestrial animal ( )
  - VI. Producing energy is a common characteristic among animals and plants ( )

03. (A) When studying the constituents of the environment Quantitatively basic units such as length, mass, time etc.....are used.

I. Copy the following table in your answer script and fill in the blanks

| Fundamental unit | Standard unit | symbol |
|------------------|---------------|--------|
| length           | .....         | m      |
| mass             | kilograms     | .....  |
| time             | .....         | s      |

- II. How much is 1g in kg ?
- III. State a desirable unit of measuring length in ancient time.
- IV. Mention two instruments used to measure mass.

(B) Different types of substance are used for different uses in day to day life.

- I. What is the most suitable material for making a sharp knife ?
- II. Which material is most suitable out of clay and Aluminum for a utensil used for quick cooking with a gas cooker?
- III. What type of a container you select for taking water when you go on a trip?
- IV. Why is it most suitable to use a banana leaf other than a polythene sheet for a packet of rice ?

04. There is a diversity in plants according to different features. Answer the following questions using the given plants or parts of the plants.



vatakeiya

centella

orchid

launia

manioc



centella



carrot



ipomea

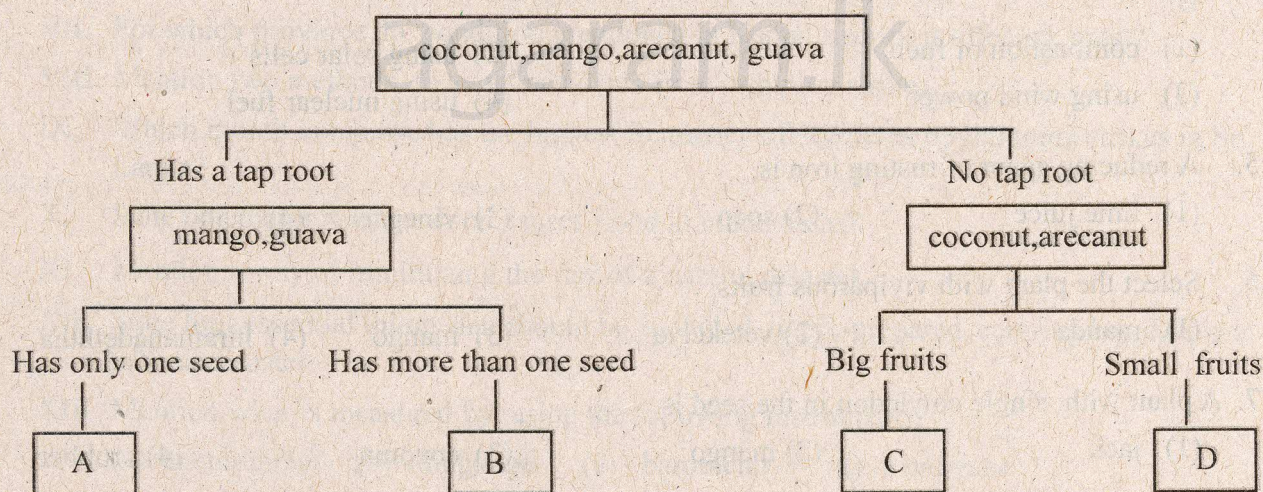


potatoes

- I. Name the plant that store food in the stem and live in xerophytic environment.
- II. Mention two adaptations that the above plant shows.
- III. What is the plant with running stems (stolons)?
- IV. Select the plant with an underground stem?
- V. What is the name of the plant having specific roots for absorbing water vapor in the atoms?
- VI. How these specific roots are known?
- VII. Write down the names of the plants separately which store food in tap root and lateral root.
- VIII. What is the name of the plant having stilt roots?
- IX. What is the name of the aquatic plant which shows adaptation for floating water?
- X. Which plant show adaptations to live in a coastal environment?

05. (A) Living organisms can be divided into two groups as plants and animals .Every living being needs food, water and air.

- I. Write down dissimilarity among animals and plants.
- II. Why the animals are called as dependents?
- III. Name one organism with following features.
  - (a) using skin for locomotion
  - (b) using gills for respiration
- IV. Select suitable plant for A,B, and C in the following dichotomous key and write down in your answers script.

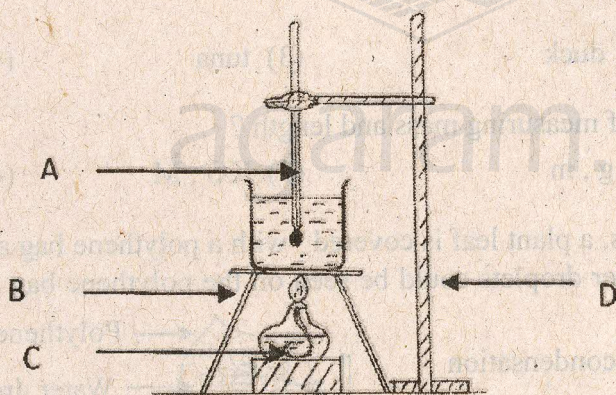


(B) We use water for different purposes.

- I. What do you mean by per capita consumption of water?
- II. State one use of water for plants .
- III. Write an example for using water in industries?
- IV. What is the transporting media in animal bodies?
- V. Mention one step you can follow to reduce water pollution.

06. A grade six student has noted the following observations after observing the environment
- Compost had being made up due to decaying of leaves under jack tree.
  - The blade of the mamoty has rusted in reddish brown colour.
  - Part of rock behind the house had been broken into pieces due to penetration of Banyan roots.
  - Bottle of coconut oil had been frozen in the kitchen.
- Which organisms are responsible for decaying of leaves?
  - How the above process is known as?
  - Which incident shows a change of state?
  - What are the factors affect rusting of iron blade of the mamoty?
  - Name a substance which increases rusting of iron?
  - State one step used to prevent rusting of iron?
  - Write down a chemical factor affect the digestion of rocks?
  - Write a factor that helps to freeze coconut oil.
  - State two phenomena which are associated with the abiotic environment.

7. (A) The apparatus given in the following diagram is to observe increasing temperature of water while boiling.



- Name A,B,C,and D in the apparatus
  - What is the standard unit of measuring temperature?
  - Mention the symbol of it.
  - Write the boiling temperature in standard units.
- (B) We do various types of work using force and energy.
- Mention two activities done with the aid of force.
  - What is the primary source of energy?
  - What is known as a fuel?
  - Where the thermal power plant is situated in Sri Lanka, Which was built up recently?