



Devi Balika Vidyalaya - Colombo

First Term Test - 2014

Science - I

Grade 8

Time : 1 ½ hrs.

- Answer all questions.
- Underline the correct Answer.

01. Muthurajawela belongs to the Eco system type of,
- | | |
|------------|------------------|
| i. Villus | iii. Dry patanas |
| ii. Damana | iv. Wet lands |
02. A characteristic of wet pattna is,
- | | |
|----------------------------|---|
| i. Soil is rich with humus | iii. Located around 2000 m above sea level. |
| ii. High rainfall | iv. All above characters |
03. Which one is the traditional cultivation method out of following cultivation methods.
- | | |
|----------------------------|------------------------|
| i. Green house cultivation | iii. Hydroponics |
| ii. Chena Cultivation | iv. Hanging bag method |
04. Which of the following characteristic is not a feature of a plant grow in arid areas?
- | | |
|------------------------------|---------------------------------|
| i. Fleshy leaves | iii. Leaves become thorny |
| ii. Reduced number of leaves | iv. Stems, covered by epiphytes |
05. An animal that controls the unlimited increase of mice and frogs by predation is,
- | | |
|-----------|-----------------------|
| i. Fox | iii. Honey bee |
| ii. Cobra | iv. Lizard "Hikanala" |
06. Snake with deadly poisonous venom is,
- | | |
|--------------------|--------------------------|
| i. 'Haal Dhanda' | iii. 'Mukalung thelissa' |
| ii. 'Mudu Karawala | iv. 'Ehatulla' |
07. An instance in which the snake venome is used
- | | |
|---|---|
| i. To produce vaceines | iii. To produce antibiotics |
| ii. To produe medicines for deaseases like lepracy and Asthma | iv. To apply on the skin to prevent reachings snakes. |
08. Predation is
- | |
|---|
| i. Depending on an Animal |
| ii. eating flesh |
| iii. Sucking blood without killing the animal |
| iv. capturing an animal to eat. |

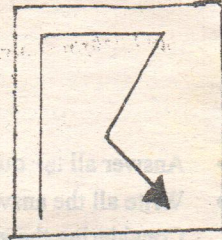
09. This symbol indicates

- i. No entry
- ii. hazardous area,
- iii. Exit
- iv. Avoid touching



10. Standard symbols are also being used internationally to give informations related to weather. Below symbol indicates,

- i. Drizzle
- ii. Thundering rain
- iii. Snowy rain
- iv. irregular light rain



11. Which of the following is not a feature of element, CARBON is,

- i. Conduction of electricity
- ii. Fragile
- iii. Ability to absorb various organic toxins
- iv. Able to use as a Fungicide

12. The chemical formula of Sodium which is known as Natrium in Latin is.

- i. N
- ii. S
- iii. Na
- iv. So

13. The gas which is released when the lid of a cool drink bottle is opened,

- i. Oxygen
- ii. Carbon dioxide
- iii. Water
- iv. Chlorine

14. Symbols are used for Communicating various messages to the society. Which is not a common convention of a symbol.

- i. Being unique to the particular field
- ii. Using standard colours
- iii. Having standard scale
- iv. Keeping the particular shape.

15. The colourless odourless gas, which represents 78% of the atmosphere, and used to fill bulbs is,

- i. Oxygen
- ii. Nitrogen
- iii. Carbon dioxide
- iv. Helium

16. Which one has the highest density.

- i. Iron
- ii. Aluminium
- iii. Mercury
- iv. Lead

17. When more solutes are added to a solution, the density of it,

- i. Increases
- ii. Decreases
- iii. doesn't change
- iv. cannot tell anything

18. A monoatomic gas is,

- i. Oxygen
- ii. Hydrogen sulphide
- iii. Argon
- iv. Ammonia

19. The smallest particle which shows properties of a compound is,

- i. Electrone
- ii. Gas
- iii. Atom
- iv. Molecule

20. A role of forest is,
- Catchment areas of rivers.
 - No relation with water cycle.
 - Plants initiate food chains
 - involve in keeping the balance of oxygen and carbon dioxide concentrations.

(20x2 = 40 marks)

Part - II

- Answer all the questions.
 - Write all the answers in this paper using given space.
- (01)
- Considering the subject matter related to nature of matter, molecules and atoms
Give two reference sources that you used to prepare the wall newspapers.
 - What are the objectives of your wall newspaper. Write two objectives.
 - The Diagram shows the particulate arrangement of a state of matter.



- Which state is represented by it ?
- Write two important facts about this structure
- We use some of the characteristics in state of matter as advantages in some of the activities.
Read below instance & write which characteristic of state of matter is used in each instance.
 - Using water as a washing agent
 - Using air to fill the vehicle tyres
 - Using metal to make weapons
- Considering characteristics of elements match below description choosing the correct element & write the name and the symbol of the element.
(Sulphur , Chlorine , Iron , Helium , Oxygen)
 - Yellow coloured , solid ,and non metallic element
 - Monoatomic gaseous element
 - Blakkish grey coloured metallic element
 - A Colourless, odourless gas which consists of Diatomic molecules
- Write two important facts you should consider when writing chemical symbols of an element.
 -
 -

(02) Filling the blanks using the most suitable word from the brackets.

(Shanties / Nonformal urban buildings, Municipal council, Kanneliya, Sinharaja, 'Eraminiya', Damana, Villus, partanas, Mana, Nyle, Ocean, Crop rotation, Paddy field, Raw material, areas of animal husbandary, increasing population, Cental environmental quthority)

- i. is a tropical rain forest in Sri Lanka.
- ii. Grass lands in low country Dry zone are called
- iii. Abundantly found plant species in Dry patina environment is
- iv. The world's largest aquatic environment is
- v. is the water filled wet land in Dry zone with abundant grasses.
- vi. is required other than machinery, energy sources for industry.
- vii. is a strategy used to overcome low yield and productivity failure in a cultivation.
- viii. causes various negative later effect in a populated area.
- ix. Before starting a industrial operation legal approval should be taken from
- x. Because of, it is difficult to dispose house hold garbage.

(10 marks)

(03) Read the following sentences and a (✓) a against the correct statements and a cross (X) against the incorrect ones.

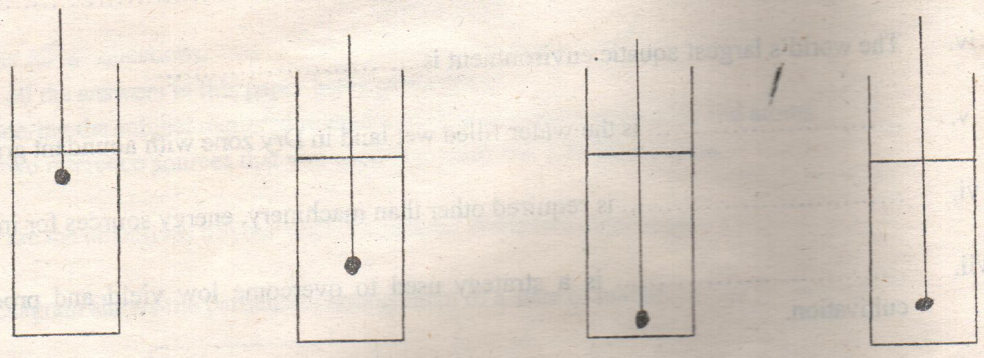
- i. A Tea land can be considered as an agricultural environment. (.....)
- ii. When Harvesting from an agricultural environment nutritious don't remove from the land. (.....)
- iii. A land reserved for animal husbandry is not considered as an agricultural environment. (.....)
- iv. Small insects don't possess poisons which are harmful for us. (.....)
- v. Antivenoms are synthesized to detoxify toxins enter the body in snake bites. (.....)
- vi. 'Thel Karawala' is a deadly poisonous serpent. (.....)
- vii. The poisonous animals should not be protected. (.....)
- viii. In case of a biting of 'Thith Polaga' strangure, blood passing with urine, kidney disfunctiong, blood vomiting, blood passing with stool are occurred and the patient will die. (.....)
- ix. Though honey bee is a poisonous arthropod, it is not carnivar. (.....)

- x. When choosing on agricultural land road facility is essential. (.....)
- xi. Some animals use toxins to make the prey disabled. (.....)
- xii. Edible salt is known as sodium sulphate . (.....)

(12 marks)

(04)

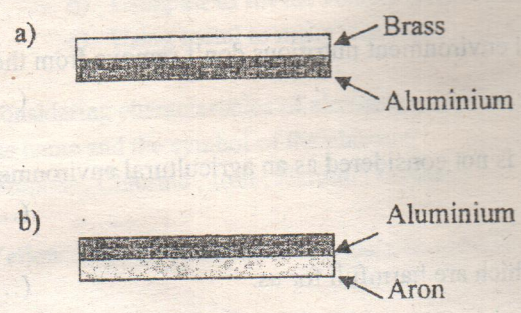
i. There are 4 beakers filled with water, coconut oil, copper sulphate and kerosene. The below diagram shows when hydrometer drawn in to above beakers, Name the liquids according to that



- i.
- ii.
- iii.
- iv.

ii. The volume is 2cm^3 of piece of paraffine weight about 22.6 g. Find the density of paraffine. Write the suitable equation for that.

iii. Brass metal, Iron and Aluminium metals become expanded when heat is supplied. Aluminium expanded in least and white Iron shows minimum expansion. Draw the correct situation front of bimetals according to that.



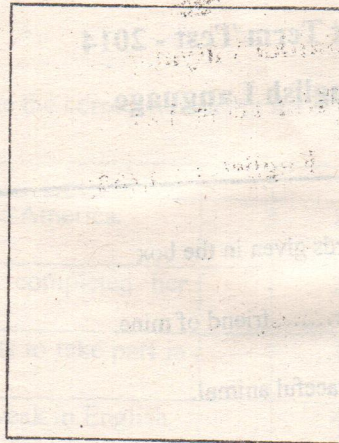
iv. Write two electric equipments consist of thermostats.

1.
2.

v. You have been supplied following liquids. Draw the Diagrams when poured slowly and separately in to a transparent tall glasses.

Supplied liquids → Surgical spiril , Glycerine , water , coconut honey, sunflower oil.

(18 marks)



2 marks

Diagram

Write

minium
ant of th



oil, salt, heat, iron, wood, steel, glass

(10 marks)