

Department of Education - Western Province

Year End Evaluation - 2013

Grade 8 Science

Name / Index No :

Time : 2 Hours

Part I

- Select and underline the most suitable answer.

- The SI unit of measuring density is
i. ml ii. gcm^{-3} iii. kgcm^{-3} iv. kgm^{-3}
- An example for an equipment manufactured by using liquid pressure
i. Thermos flask ii. Mercury thermometer iii. Lactometer iv. Hydrometer
- When preparing a solution by dissolving salt gradually in water it.
i. Increases its temperature ii. Decreases its temperature
iii. Increases its density iv. Changes its colour to white
- Select the steps which shows complete metamorphosis of an organism
i. egg \longrightarrow pupa \longrightarrow larva \longrightarrow adult
ii. pupa \longrightarrow adult \longrightarrow larva \longrightarrow egg
iii. egg \longrightarrow larva \longrightarrow pupa \longrightarrow adult
iv. larva \longrightarrow adult \longrightarrow egg \longrightarrow pupa
- Select the organisms that eats plant roots in its larval stage and leaves during its adult stage
i. butterfly ii. coconut beetle
iii. dragonfly iv. Aulacaphora beetle
- Below given are different shapes of bottles choose the best bottle to make a safety lamp



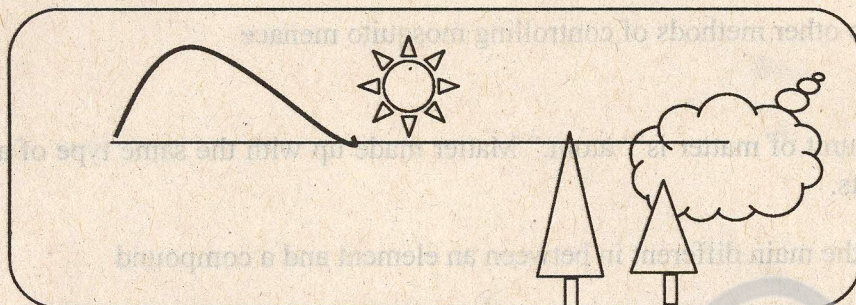
- It is useful to have venomous animals in our environment .Select a use of such animals on our environment
i. They fertile the soil ii. They decay the organic matter
iii. They increase the soil erosion iv. They help to protect the environmental balance
- An electronic device which generates heat
i. television ii. hot plate
iii. solar cells iv. electric generator
- Modern mobile phones can do many functions. find a function which cannot be done by using it
i. Listening to the radio ii. Video capturing
iii. Sending fax iv. Sending E-Mail

10. Predation means
- Depending on another animal
 - Eating meat
 - Sucking blood without killing it
 - Taking other animals as food
11. What can you observe if you put together equal portions of water and coconut oil in a beaker, after some time
- Water floats on oil layer.
 - Oil floats on water.
 - Water and oil are mixed.
 - Cannot say correctly.
12. Radio waves can be used to communicate far distant places on earth. The atmospheric layer is responsible for this type of communication
- Thermosphere
 - Exosphere
 - Troposphere
 - Stratosphere
13. This is an example for a renewable sources of energy
- coal
 - Natural gas
 - Petroleum oil
 - bio mass
14. To measure the electric current which is flown in an electric circuit
- Galvanometer
 - Ammeter
 - Voltmeter
 - Ohmmeters
15. Out of the following cultivation methods which one shows the Traditional cultivation method
- Hydroponic System
 - Chena cultivation
 - Tissue culture
 - Inter cropping
16. Below given are three statements on liquid pressure.
- Liquid pressure exerts in every direction
 - Liquid pressure is same at the same level of the depth
 - Liquid pressure increases with the depth
- The correct statement from above given statements.
- A only
 - B only
 - C only
 - A ,B ,C all
17. An element which doesn't contain in stainless steel
- Iron
 - Nickel
 - Chromium
 - Zinc
18. A. A medium is necessary to travel sound waves
B. Sound waves are produced as a result of vibrations
C. The velocity of sound is same in all medium
- What are the correct statements among above
- A only
 - A and B only
 - A and C only
 - All A,B and C
19. A mineral which is used to manufacture glass
- Rutile
 - Silica sand
 - Monazite
 - Ilmanite
20. This is a mineral not containing iron
- Hematite
 - Limonite
 - Magnetite
 - Boxite

Part II

- Answer questions no. 01 and four other questions.
- 16 Marks for question No. 01 and for other questions 11 marks each.

1. (A) Greeting card made of plant materials by a student is given below.



- Name two plant parts which can be used to make this greeting card.
- State two strategies you can apply to increase durability of the greeting card.
- State two steps to minimize the harm to the plant part during this process.
- Ornaments can be made of using plant waste materials. Mention two such ornaments and write the plant waste materials used for each one.

(B) Akkapana (Bryophyllum) is a medicinal plant. You are assigned to popularize a drink prepared using this plant .

- Write a small advertisement on that drink .
- What is the environment that Brayophyllum adapted for?
- Leaves of Bryophyllum performs a special function .What is this special function?
- What is the main function of leaves?
- State two functions perform by plant roots.
- There are some other types of roots which perform special functions too. State two special functions of roots and mention two examples for each.

2. (A) Large number of chemicals are used in our regular life. Harmful effects can be occurred due to misusing of these substances

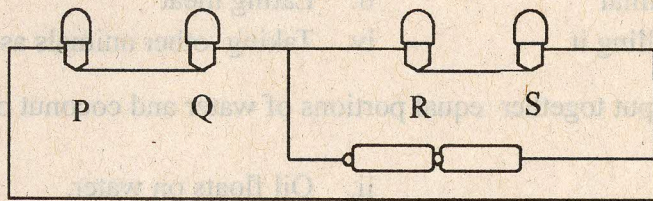
- Name two food additives .
- Name the three major components in paints.
- Name two antiseptics used in homes.
- State two things to be considered when used pharmaceuticals .

(B) Minerals and rocks are natural resources which obtained from the earth

- Name the three major types of mineral in granite
- What is the name of the clay component used to produce crockery (china –ware)

3. (A) Organisms which are invisible to the naked eye are called microorganisms.
- State two instances that microorganisms are useful to human
 - What is the name of the bacteria which was recently imported to Sri Lanka to control dengue spreading mosquitoes
 - Which state of life cycle of mosquito is destroyed by this bacteria?
 - State two other methods of controlling mosquito menace
- (B) The building unit of matter is "atom." Matter made up with the same type of atoms are called elements.
- What is the main different in between an element and a compound
 - Name two elements which exists as diatomic molecules
 - What are the elements contain in water
4. (A) Below given are few characteristics of a certain type of forest
- Gets rain throughout the year .
 - Trees show distinct stratification into two layers.
 - Under growth can be seen in some places.
- Name the type of forest which shows the above mentioned characteristics
 - Name two forests in Sri Lanka which shows similar characteristics
 - Write two major functions performed by forests for the existences of life
 - Forests are destroyed for many purposes. Mention two adverse effects on the environment that cause by destroying forests
- (B) Cyclones occur as a result of low pressures system in the atmosphere
- Where does the cyclone originate?
 - Name the place of the cyclone which has the lowest pressure.
 - What is the common name for very strong small cyclones which last for few minutes.
 - Write two pre cautions you take if a cyclone threat is announced

5. A) An electric circuit with bulbs and electric cells is given below



- Draw the above circuit in a circuit diagram
- If P bulb gets burn, Name the bulbs that remain glowing
- All four bulbs are equal in all aspects. What will happen to the brightness of bulbs that remain glowing

- B) i. If you are supplied with two dry cells, an iron nail and a copper wire, draw a diagram

to show how do you use them to prepare an electro magnet.

- An electro magnet prepared by a student does not work properly. Write two reasons for that?
- Mention two instances where electro magnets are used.

6. (A) Our main source of energy is the sun. As a result of high consumption of energy an energy crisis has arisen

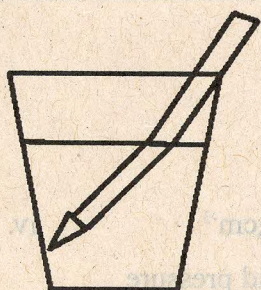
- Mention two reasons for high demand of energy
- Fossil fuels contain solar energy. Do you agree for this statement? If you agree write the reasons
- Name a non-renewable energy source which can be used instead of fossil fuels
- Name two renewable energy sources

- (B) Musical notes can be originated by using many strategies

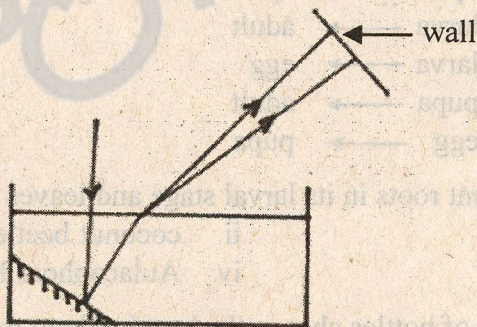
- Name three major types of musical instruments
- Write the auditory range of human being

7. The sun is a luminous object. The moon is an illuminated object.

- i. What is meant by a luminous object?
- ii. Non luminous objects can be seen by the phenomenon called reflection. Draw diagram to show the path of light when reading a book using the light emitted by an electric lamp.
- iii. Name two instruments which use the (phenomenon) of reflection
- iv. When a pencil is immersed in a glass with water, the pencil appeared as broken in the water – air intersurface. What is the reason for this (phenomenon)?



- v. A plane mirror is placed in water container in slantwisely and kept under sunlight. The reflected light falls on a wall as shown in the diagram. Mention your observation and the conclusion with this



- vi. What type of rays are absorbed by the ozone layer?
- vii. Mention two natural phenomena due to refraction of light