

De Mazenod College

1<sup>st</sup> Term Test - 2016

28.03.2016

Science

Grade - 8

PART I

① Select the most suitable answer.

(1) The two main types of ecosystems are,

- 1) Grasslands and forests
- 2) aquatic and Terrestrial
- 3) Brakishwater and fresh water
- 4) Upcountry and lowcountry

(2) Sinharaja was named as a national heritage in,

- 1) 1980
- 2) 1985
- 3) 1988
- 4) 1989

(3) Among 81 species of inland fish how many are endemic

- 1) 41
- 2) 31
- 3) 51
- 4) 27

(4) Annual rainfall is above 2000 mm and found in the highland of 900 m above sea level. Identify the forest.

- 1) Tropical rain forest
- 2) montane forests.
- 3) Dry mixed ever green forests
- 4) Thorny shrubs and wood

(5) Welimada plateau, knuckles and Deniyaya are examples for

- 1) Wet patana
- 2) Dry patana
- 3) Damana and Thalawa
- 4) Wetlands

(6) Man is changed the environment in to \_\_\_\_\_ categories.

- 1) 2
- 2) 3
- 3) 4
- 4) 5

(7) Two kinds of animals which are poisonous to man.

- 1) Amphibians and arthropods.
- 2) Mammals and arthropods.
- 3) Snakes and arthropods.
- 4) Snakes and mammals.

(8) Serpents, centipede and scorpions are

- 1) omnivores
- 2) Herbivores
- 3) Carnivores
- 4) None of the above

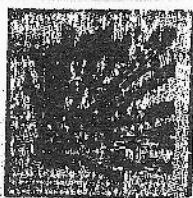
(9) How many states are there in matter.

- 1) 3
- 2) 5
- 3) more than 3
- 4) None of the above

(10) The scientist who stated the experimental view about the atom.

- 1) Galileo Galilei
- 2) Jhon Dalton
- 3) Democritus
- 4) Aristotle.

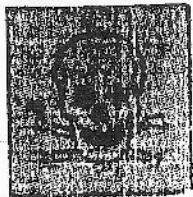
(2) Write the message conveyed by the following symbols.



1



4



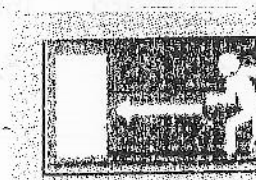
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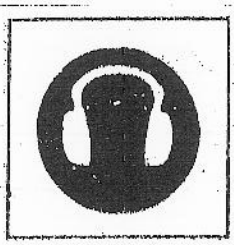
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3



6



7



9



8



10

3) Fill in the blanks.

- 1) The three states of matter are \_\_\_\_\_, liquids and gases.
- 2) \_\_\_\_\_ is not supporting for combustion
- 3) \_\_\_\_\_ is a highly consumed solvent.
- 4) \_\_\_\_\_ is an instrument which used the liquid expansion.
- 5) \_\_\_\_\_ strips are used in automatic instruments.
- 6) \_\_\_\_\_ is used to measure the density of liquids
- 7) \_\_\_\_\_ is the basic unit of matter.
- 8) Destroying poisonous animals will harm the \_\_\_\_\_ balance.
- 9) Solids, liquids and \_\_\_\_\_ expand due to heat.
- 10) We can increase the \_\_\_\_\_ of a liquid by adding more substances to it.

4) Identify the following elements and write them in symbols

- 1) The light weight homoatomic gas \_\_\_\_\_
- 2) Pale yellow coloured gas used to kill germs \_\_\_\_\_

- 3) symbol of gold
- 4) The liquid metal
- 5) Silvery white, light, strong metal
- 6) compound used in food preparation
- 7) Two types of elements present in alloy
- 8) Colourless, odourless gas help in respiration
- 9) Black coloured, Non metal, solid substance
- 10) Used to produce urea and exist in the atmosphere in large percent. what is the gas?

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(PART II)



Answer all the Questions.

- ① The ecosystem can be divided into two, namely aquatic and terrestrial.
- According to the nature of the water, name the three main types of aquatic systems in the environment (3)
  - What is a riverine? (1)
  - Write 2 human activities which badly effect on riverwater (2)
  - Write 4 uses of rivers (2)
  - Write the chemical name of the following substances.  
i) Epsom salt      ii) common salt (3)
  - Write short notes.  
i) Delta      ii) Lagoon (4)
  - Write 2 importance of inland water bodies (2)
- (16)

- ② Our environment is made up with matter and energies.
- Write 2 differences between matter and energy (2)
  - Explain two properties of solids, liquids and gases using the diagrams with their different arrangement of particles. (3)
  - Write an activity to show the particulate nature of gases (2)

iv) Explain

a) Atom      b) Molecule (2)

v) Following are some instances where we use solids, liquids and gases. Explain the reason for their use. (2)

a) liquid fuel filled in the fuel tank

a) Storing a large quantity of gas in the small volume of gas jar. (11)

③ Man change his environment to suit his requirements.

i) Write 2 differences between agricultural environment and industrial environment (2)

ii) Write 2 things that can be done to get maximum benefit from an agricultural system (2)

iii) What is an industrial environment (1)

iv) Write 2 harmful effects of industrial environment (2)

v) Write 2 authorities / organizations which help to minimize the bad effects of industrial environment (2)

vi) Write 2 characteristics of organized urban settlement (11)

④ Density is a characteristic property of substances.

i) Explain "Density" (2)

ii) If a piece of wax volume of  $200 \text{ cm}^3$  has a mass of 180g. Find the density of wax. (2)

iii) If you have provided the materials such as a pencil and drawing pin, Explain how do you make a hydrometer

iv) You have provided the 3 vessels named A, B, C (2) filled with 3 different liquids. Using the above hydrometer explain how do you find the densities of those different liquids. (3)

v) Two objects named x, y are put in to a water basin. Object 'x' immersed and settled at the bottom. Object 'y' sink and float on water. Explain the above observation using the densities of substances. (2)

(11)

5) Various types of forests and grasslands belong to the natural terrestrial environment.

i) Write the suitable forest or grassland which fit with the description.

a) Show distinct stratification and form a canopy

b) Grassland with a high rainfall and moist throughout the year

c) Xerophytic area, soil is dry, strong sunlight. (3)

ii) Write 2 importance of wetlands (1)

iii) Name 2 highly poisonous snakes and write one characteristic feature for each (2)

iv) Write 2 things that we can do to prevent snake bites (1)

v) Write 2 environmental importance of poisonous animals (1)

vi) Write an advantage of using international scientific symbols. (1)

vii) Draw the symbols used to convey the following weather information. (2)

a) Heavy rain      b) sunny

(11)