

05. The density of water is,
- i. 1000 kilograms per cubic meter
 - ii. 800 kilograms per cubic meter
 - iii. 100 kilograms per cubic meter
 - iv. 1800 kilograms per cubic meter
- (....)
06. The speed is measured in kilometers per hour. The symbol is,
- i. kmh^{-2}
 - ii. ms^{-1}
 - iii. Kmh^{-1}
 - iv. m/s
- (....)
07. What is the system which is used to transport substances and prevents human body from diseases.
- i. respiratory system
 - ii. digestive system
 - iii. blood circulatory system
 - iv. secretory system
- (....)
08. According to the modern classification which of the following are considered as dwarf planets?
- i. Ceres and Cena
 - ii. Ceres and Mercury
 - iii. Pluto and Neptune
 - iv. Cena and Venus
- (....)
09. What is the first unmanned artificial satellite sent by Russia ?
- i. Salut - 1
 - ii. Sputnik 1
 - iii. Minera 9
 - iv. Sputnik - 2
- (....)
10. Different sizes of sand was seen in the rice, bought from the shop. According to their composition the rice is a.
- i. a mixture
 - ii. homogenous mixture
 - iii. heterogeneous mixture
 - iv. compound
- (....)
11. Which one is the non metallic element,
- i. brass
 - ii. bronze
 - iii. steel
 - iv. silicon
- (....)
12. Which group of elements evolve hydrogen when reacting with cold water ?
- i. sodium, potassium, calcium
 - ii. copper, iron, aluminium
 - iii. zinc, lead, copper
 - iv. copper, potassium, tin
- (....)

20. When two substances are rubbed together the charges which occur on the surface is called electro static charges. what is the static charge acquired by the ebonite rod when rubbing with piece of flannel cloth,

- i. positive charge ii. negative charge iii. no charge iv. no answer
(....)

Part II

Instructions.

- * **Answer five questions, including the first question.**
- * **Obtain 16 marks for the first question and obtain 11 marks each for other questions.**
- * **First question carries 16 marks and the rest carries 11 marks each.**
- * **The first question is compulsory.**

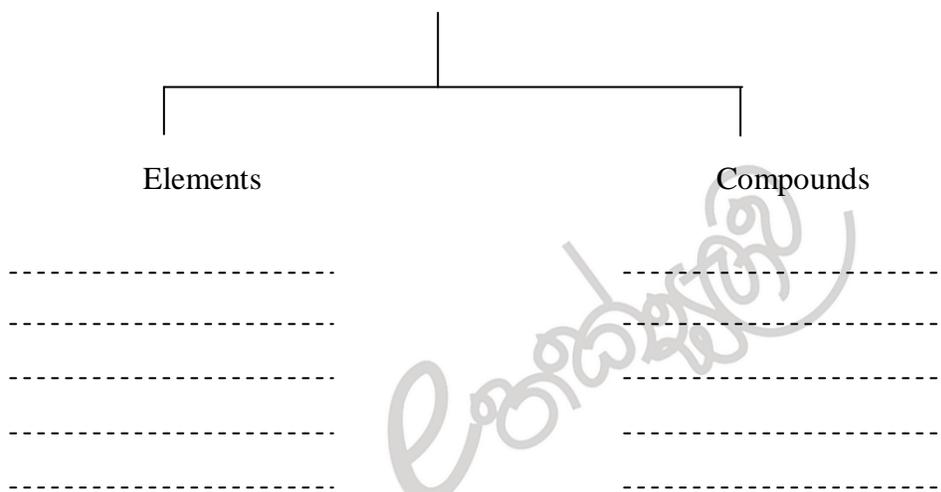
01) As a student in grade 7, you have got a chance to find information about the solar system. For that, each group used different methods to present their findings. think Imagine that you are a member of one of a group and answer the following questions given below.

- i. Write briefly, how your group has been prepared to present the information collected about the solar system. (2 marks)
- ii. Give three sources you have used to collect information (3 marks)
- iii. a) Write down two things that is used to present the project creatively. (2 marks)
b) Write down two important facts collected about the sun. (2 marks)
- iv. Give information according to the topics given below for any two planets belonging to the solar system.
 - a) Name of the planet.
 - b) The place where it is in the solar system.
 - c) The nature of the planet. (3 marks)

- v. a) Write two advantages of revealing about space to man. (2 marks)
- b) What is the first reusable space craft used for space travel? (1 marks)
- c) Mention one challenge the astronauts should face in space explorations and explain how they overcome it? (1 marks)

2) We come across many substances in our daily life. In science we use different criteria to classify these substances. The diagram given below is a method to classify substances. Fill the blanks with the suitable substance from the list given below.

- i. water, sodium, carbon, mercury,
condis, copper, salt



(4 marks)

ii. Write a reason for classifying above substances as elements and compounds. (1 marks)

iii. Among the substances

- a. Name all the metallic elements. (2 marks)
- b. Name one none metallic element (1 marks)

iv. a. Which is the substance which produce oxygen when heating ? (1 marks)

b. Name the element which reacts violently with water and makes a hissing sound, rushes around the water surface, and turn in to a small ball (1 marks)

c. What is the gas produced during this reaction ? (1 marks)

- 3) The soil is a natural resource. Soil can be classified into three types based on the size of particles. The activity given below is designed by a grade 7 student to identify the three types of soil.

If same amount of soil samples and water have been put into three funnels,

- i.
 - a. Name the three A, B,C, soil samples (3 marks)
 - b. Name a property of soil sample c. (1 marks)

- ii.
 - a. Which one of the above soil sample is ideal for plant growth? (1 mark)
 - b. How can we enrich the other two soil samples for the plant growth? (2 marks)

- iii. The soil that we are using is a result of the process of million years. Therefore it is important to conserve the soil for the future generation.
 - a. Give two major factors which cause soil erosion.
 - b. The soil erosion increases by human activities. Name a human activity which cause soil erosion. (1 marks)

- iv. Write down two methods of soil conservation in a sloap land. (1 mark)

- 4) Explain using scientific reasons for any five of the following statements.
- It is poisonous to prepare a pickle in an aluminium vessel.
 - If we dissolve ash in water is soapy to the touch.
 - If we add dilute a hydrochloric acid to a test tube containing egg shells bubbles will be produced.
 - If we leave a balloon filled with hydrogen gas it will go up very fast.
 - When adding few drops of phenolphthelin to a beaker containing sodium hydroxide the changes colour in to pink. But adding diluted hydrochloric acid to it, the colour of the. solution disappears.
 - After adding baking soda to mixture of flour it will become very soft and puff after for some time.
 - After dissolving quick lime in water, the vessel will get heated. (2 ½ marks x 5)

- 5) Practical is prepared to check whether the certain objective are immersed, submerged and float according to their densities.

- * a marble stone, a glass stopper, a rubber stoppes
- * a measuring cylinder.
- * a beaker
- * a spring balance
- * thread
- * sufficient water

i.

- a. Write the two measurements of that you should obtain to find the density of the marble stone (2 Marks)

- b. Using the above measurements write the formula use to find out the density the density. (2 Marks)

ii.

Explain scientifically that how the above objects behave when in they are water (3Marks)

- iii. Following instructions are given by the teacher to the students to do the above activities.

Tie the marble stone by a piece of thread and weight it using the spring balance get the reading first. Now slowly immerse in water and weight it again

- What are the observations you expected ? (1 Mark)
- Write the reason for the above observations. (1 Mark)
- Give on instance where the above phenomenea is applying in daliy life (2 Marks)

- a. When lowering the bag of kerosene oil to a beaker of water shows a less weight in the spring balance than when it is out side. What is the reason for this difference?

b. give an instance where the above phenomena is applying in our daily life

6) There are three parts in the earth such as lithosphere, hydrosphere and atmosphere. going to interior of the earth to the bottom there are various types of layers. Below diagram is a cross section of the earth. Name the parts A, B, C, D in the diagram.

- i.
 - a. What is the thickness of the layer A ?
 - b. What are the components of A is made up ?
- ii.
 - a. Write one difference between the layers B and C
 - b. About 80% of the part D is made up of some materials. What are they ?
- iii.
 - a. Name a type of rock and a type of mineral.
 - b. Write down one use of each.
- iv.
 - a. What type of rock forms by the volcanic activity ?
 - b. The pencil which you use to write made up of a mineral. what is it ?

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