Jayawardanapura Educatioanl Zone

Grade 7

Name ..... 2nd term evaluation – 2014

Science I II

Duration : - two hours

Answer all the questions

In each of the question from 1 to 20 , Select the correct or most suitable answer and underline it.

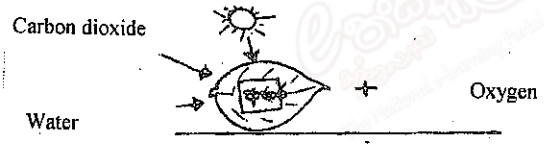
01. Which of the following is an herbivorous animal
    1).Fox 2).Lion 3).Crow 4).Deer

02. Which of the following is an interaction of non-living environment
    1). Butterfly sucking nectar 2). Weathering of rocks 3). Cat protecting kittens
    4). An epiphytes growing on a mango tree

03. Select the answer containing homogeneous and heterogeneous mixtures respectively
    1). Sugar solution and salt solution 2). Wheat flour solution and sugar solution
    2). Blue powder solution and salt solution 4). Sugar solution and wheat flour solution

04. Which of the following is the SI unit of measuring speed
    1).ms^{-1} 2). Km 3). ms^{-2} 4). m

05. What is the name of the process that takes place in the following plant leaf

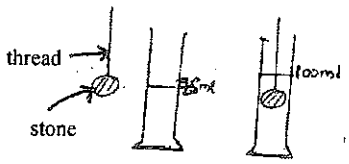


    1). Photosynthesis 2). Respiration 3). Transpiration 4). Hibernation

06. A vesak lantern which had been kept outside for a longer period of time got I colour faded.This phenomenon is known as
    1). Thermal decomposition 2). Thermal degradation 3). Boiling point
    4). Ignition temperature

07. What is the mineral which can be found in normal sand
    1). Lime stone 2). Quartz 3). Granite 4). Marble

08. According to the given information, what is the volume of the stone
    1). 175 ml 2). 75ml 3). 25ml 4). 100ml



09. Select the substance which reacts with both acids and bases
    1). Lime stone 2). Magnesium 3). Sulphur 4). Aluminium

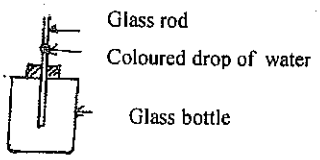
10. What is the type of soil used to extract iron
    1). Clayey soil 2). Steel 3). Kaolin 4). Iron ore

11. An example of semi parasitic plant
    1). Orchids 2). Pitcher plant 3). Loranthus 4). Akkapana (Cathedral bells)

12. On heating, some solids convert directly to gaseous state without converting to liquid. This process is known as
    1). Heat transfer 2). Sublimation 3). Expansion 4). Change of state

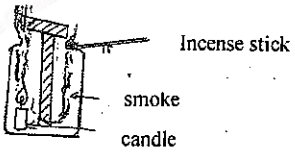
13. If you keep this bottle in a basin with hot water, what can you observe

    1). Colourd drop of water rises up
    2). Colourd drop of water goes down
    3). Colourd drop of water gets evaporated
    4). Colourd drop of water stays still



14. What is the plant with underground stem
    1). Sweet potato 2).Carrot 3).Turmeric 4).Manioc

15. Due to the rising up heated air above the candle flame, the smoke of incense stick, flows through the beaker.
    This method of transferring heat is known as
    1). Conduction 2). Convection
    3). Radiation 4). Expansion

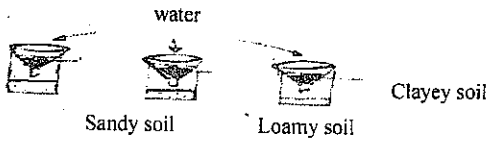


16. Select the answer which contains the layers of the earth from the middle to the surface of the earth in orderly manner?
    1). Core ,mantle,Crust 2). Crust ,mantle,Core 3). Mantle,core ,Crust
    4). Crust,core,mantle

17. What is the best soil for the cultivation of crops?
    1). Clayey soil 2). Sandy soil 3). Loamy soil 4). Iron ore

18. Who was the first person to land on the moon
    1). Yuri Gagarin 2). Neil Armstrong 3). Robert Godad 4). Isaac Newton

19. Same amount of the above soil types were put in to funnel. Then equal amount of water was added to each soil sample. The experiment was planned to



1). show the presence of water in the soil
2).show the amount of water retain in different types of soil
3). Check the best soil for plant growth
4).show the presence of air in the soil

20. Which of the following factor is not essential for the decomposition of organic matter

1).Humidity 2). Proper temperature 3). Air 4). Strong sunlight

Grade 7
Science –part II

First question is compulsory. Answer the first question and four others

01). You may have done different assignment in your class room. Wall newspaper for solar system and space travel is one of that.

i). Write 2 strategies you can take to make wall news paper more attractive to students

ii). Given below is a conversation between 2 planets which was published in wall news paper.

A- I saw yesterday ,just before the sunrises. People in my planet call you morning star, evening star etc.

B- You are the closes neighbour which is seen blue in colour. But I have not got a chance to tell many things about you.

a). Identify the planets A and B
b). Write down two characteristics seen in planet A but not in B
c). write down a characteristic that can be used to distinguish a star and a planet

iii).Write down the planets of the solar system in order

iv).Pluto is considered as a dwarf planet. Write down one reason for this

v). Given below is a part of a questionnaire published on wall newspaper. Answer the following questions

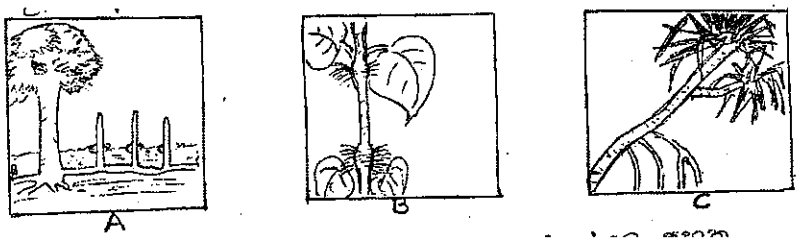
a). What is the largest planet
b). who was the first person to reach to the space
c). name the sub planet of the earth
d). What is the planet with beautiful rings

vi).write down one challenge that man face during space travel and solution for it

vii). Write down two other creative things you can published on the wall news paper except the questionnaire and the dialogue

viii). Write down two uses of the wall news paper to the students of your school

02). The diversity of roots of the plants shown in the following diagrams



i). Complete the following table in relation to the roots shown in above diagrams

	Type of the root	Name of the plant
A		
B		
C		

ii). what is the use of the root type C for the plant

iii). write down the two main types of roots systems found in plants

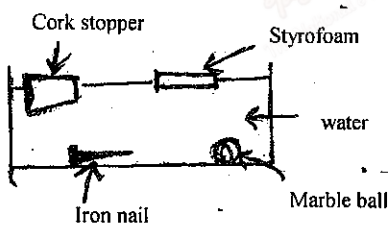
iv). Name two plants with storage roots

v). write down one function for each of shoot system given below

i). stem b). leaves c). Flowers d). Shoots

vi). Name one of the plant tissue that you know

03. Following are the observations taken by students who put different substances to a water basin



i). what is known as relative density of a substance

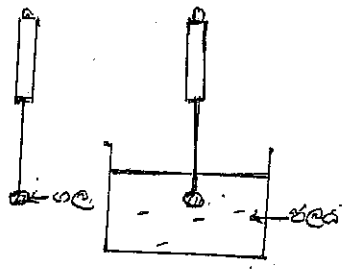
ii). Name two things of this picture which have higher density than water

iii). Density of water is 1000 kgm^{-3}.Density of Iron is 7900kgm^{-3}. Calculate the relative density of Iron

iv). Explain the reason for the sinking of some substances put in to water while the others were floating ,with the help of relative density

v).What is name given for the upward force exerted on an object sunk in water

vi).



If you know the weight of the object in air and water, write down a method to find out the force exerted on the stone

vii). Write down one instance of the use of floating in day to day life

4). A list of substance present in school laboratory is given below.Answer the following questions in relation to the given substances

Water	Dilute Hydrochloric acid	Copper sulphate
Limestone	Sodium hydroxide	Magnesium
Brass	Sulphur	Water vapour
	Potassium permanganate	

i). Name a substance in the solid state
ii). Name a substance in the liquid atate
iii). Name a substance in the gaseous state
iv). Name an acid that can be found in the laboratory
v). Name a base that can be found in the laboratory
vi). What is the alloy
vii). What is the metal that gives silver colour when scratched
viii). What is the yellow coloured non-metal
ix).What is the blue coloured compound that gives red colour on heating
x). name a substance that react with acids
xi). What is the compound that undergoes thermal degradation

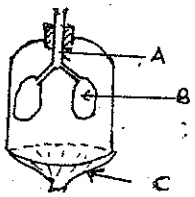
05). There are organisational patterns in the body structure of organisms to do life functions
i). what are the correct words for X and Y in the following flow chart which indicate organizational patterns of living organisms

Cells → [X] → [Y] → system → Organisms

ii). Match the followings

Respiratory system	transport of substance
Excretory system	Digestion and absorption
Blood circulatory system	Exchange of gases
Digestive system	Removal of waste products

iii). Given below is a set up designed by students to demonstrate the mechanism of respiration



a). What are the parts of the respiratory system indicated as A,B and C in the diagram

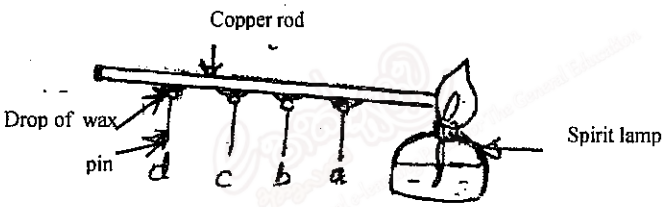
b). Briefly explain how the following processes of the respiration can be demonstrated by the above apparatus

A – inspiration B - Expiration

c).write down the system to which the following organs belong

I - heart II- Kidney

06. a). Flow of heat from one place to another place is known as transmission of heat. An activity designed to demonstrate this is given below.



i). what is the observation ,when the end of the copper rod is heated?

ii). what is the name given for the above method of heat transfer?

iii).What is the method of the transfer of heat through the liquid?

iv). what is the method of the transfer of heat from the sun to the earth?

b).Answer the following questions, selecting the suitable words from the list given within the box.

100 C^0,Melting point ,Expansion,0 ^{0}C, change of state, Boiling point

i). The definite temperature at which a solid turning to liquid - .....

ii). The definite temperature at which liquid becoming a gas - .....

iii).The melting point of water is .....

iv).The boiling point of water is .....

v). increasing of the length and the volume of a substance on heating is known as .....

vi). Ice $\underset{\text{cooling}}{\overset{\text{heating}}{\rightleftharpoons}}$ water $\underset{\text{cooling}}{\overset{\text{heating}}{\rightleftharpoons}}$ vapour show the ..... of watre

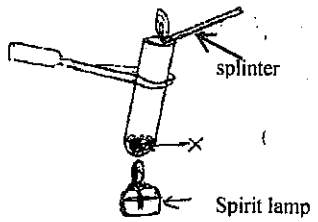
07). In addition to the combustion, substances get decomposed on heating

i).Write down two factors necessary for the combustion

ii).Complete the following table in relation to the identification of products combustion

Products of combustion	Chemical reagent	Observation
A -.....	Anhydrous copper sulphate	Blue colour
Carbon dioxide	B -	Turns milky

Heating of the boiling tube containing purple coloured crystals is shown in the diagram



iii). what is the name of the compound X

iv). what is the gas evolved on heating the above substance

v). write down a method to identify the above gas

vi). a).what is the colour when compound x is dissolved in water

b).After heating, the substance left is added in to the water, what is the colour of the solution ?

vii).write down an instance where the loss of heat is a disadvantage