සියලු ම හිමිකම් ඇවිරිණි ජුදුව *පතිරුත්කාලකයලු* All Rights Reserved

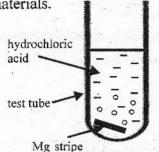
All Rights Reserved			
Transit of or with the description of the contract of the cont	ு இது கூறு இது இது இது இது இது இது இது இது இது இத		
වර්ෂ අවසාන අැගයීම - නුණාගුණු ය ප්රකාශය විද්යාණය - නුණාගුණුණුණ යනිට්ට්රිල - 2016 - Year End Evaluation			
ලශ්ණිය தரம் Grade	පතුය வினாத்தாள் A.II කාලය Anow Time 02 hours Time		
Name:-	Index No.		
A Appropriate and the second	Part I		
 Answer all questions. Underline the correct or the most suit 	itable anguar		
(01) Who was presented a new method			
	atherford (3) J. J. Thomson (4) J. J. Berzelius		
(02) Example for the Natural composit	e substance.		
(1) Coconut shell (2) Timber	(3) Cardboard (4) Fiber optics		
(03) The most common compound in t	the biogas		
(1) Ammonia (2) Methene	(3) Acety lene (4) Hydrogen Sulfide		
 (04) What is not true about the primary (1) Environment pollution is result (2) Unlimited supply (3) Rapid (4) Can be converted in to a second 	ted by using them		
(1) control converted in to discount	any chergy source		
(05) Which one is used for the measuring	ng of small quantity of liquid volume?		
	ng cyclinder (3) Volumetric flask (4) Burette		
(06) What are the two metals can be fou	and in the welding lead?		
(1) Lead, Tin (2) Bronze, T	Tin (3) Copper, Tin (4) Aluminium, Tin		
(07) The name of the quality certific conditions in the food industry. (1) I.S.O. (2) SLS	cate that responsible for the accuracy and hygienic		
(1) 1.0.0.	(3) HACCP (4) HFAC		
(08) Which animal that is synonymed b (1) arrow poison frog (2) sea ho			
method? although the switch in on,	of the following sentence in related to the scientific		
(1) an error in the switch	(2) The bulb is nt connected properly		
(3) due to the power supply failure	(4) Why the bulb is not lighted up		

(10) The following illustration is a part of a polyr	mer
The correct structure of the monomer is	$(3) \bigcirc (4) \bigcirc (3)$
(11) The giant panda's daily diet consists almost (1) see plants (2) insects (3) food	entirely of reserved roots (4) amature bamboo leaves
(12) A certain flower has following properties,	
colour is dark yellow highly fragr	맛있는 나는 점점이 되었다. 그는 사는 그녀는 점점 하는 생각이 되었다면 하는 것이 되었다면 하는데 없는 바람들이다.
What should be the pollen agent of this plan (1) wind (2) insects	(3) water (4) by bats
crucibal fork	
(13) \ / \ This diagram	is about the combustion of piece of the observation that could not be made here is ame (2) releasing a gas
Magnesium (3) making a r	noise (4) a white powder is left
(14) The endermic amphibian named by the nam	ne of Sri Lanka Biologist?
(1) Planaria (2) Arrow poison frog	
(15) Among the answers given bellow cluster of	
(1) Ursa major (2) Ursa minor	(3) pleiades (4) orion/hunter
(16) What is correct about the 'paddy seed'	
(1) simple fleshy fruit	(2) Simple dry fruit
(3) An Aggregate fruit	(4) Composite fruit
(17) The diagram represents the certain eye defe	ect.
object	retina
	-image
	11
The correct order of eye defect and the suits	(2) Short sightedness - convert lense
(1) short sightedness - concave lense(3) long sightedness - concave lense	(4) long sightedness - convex lense
(18) The pair of constellation lying on either side denoted in	des of capricon belonging to zodiac is correctly
(1) sagitarius and Aquarius	(2) Pisces and Aquarius
(3) Sagitarius and pisces	(4) Scorpius and Aquarius
(19) The inflorescence de	notled in the picture
(1) simple raceme	(2) spike
(3) Symple cyme	(4) Compound cyme
(20) Which of the following can not be consbeauty culture	sidered the use of nano-cosmatics products in
(1) making allergies	(2) penetrate deep in to the skin
(3) absorption of Infrared radiation	(4) active life being long Western Province - Grade 9 - Science

.

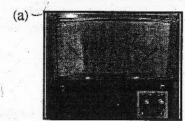
Part II

- ANSWER THE FIRST QUESTION AND FOUR MORE QUESTIONS.
- (01) (A) The activities we follows in daily life experiences, the properties of final materials are differ from the initial materials.
 - (i) In the burning candle, the solid wax turns to liquid wax. Which type of change occurs in this incident?
 - (ii) Give an evidence for a chemical reaction when lighting a match to light the candle?
 - (iii) Write the steps of the experiment to detect the mass difference of reactant and product in a chemical change?
 - (iv) How many elements are found in the chemical formula of AgNO,
 - (B) The following activity is about the identification of the interactions among the materials.

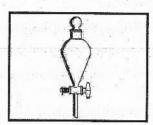


- (i) Which gas is released in this experiment?
- (ii) What is the colour of the element sulphur found in the laboratory?
- (iii) State two specific properties of an alloy other than the metal?
- (C) The consumers are protected with right to buy goods having high quality standards.
 - (i) Write the two information printed on the milk packet to detect the quality?
 - (ii) What is meant by composite materials?
 - (iii) Which type of composite material belongs to the cement plaster?
 - (iv) The over usage of polymers has become a severe environmental problem today. Write the two solutions which can be adopted to minimize this problem.
- (02) (A) The student has mentioned that the grass were converted by a piece of wood was become yellow after few days.
 - (i) Describe the word of hyphothesis.
 - (ii) Write a hypothesis regarding the above phenomenon
 - (iii) What is the use of doing control experiment in testing the hyphothesis?
 - (B) Many equipments are used to observe the minute objects. Write parts of this apparatus which are belong to following system.
 - (i) by the above diagram write a part of
 - (ii) A light microscope has the magnification of eyepiece and the objective refers as 10 and 25.Calculate the magnification power of the light microscope.

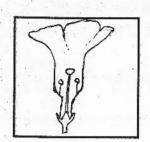
- (C) (i) Discribe the term of Micro organisms
 - (i) Name a dairy product which is producing by using of micro organisms.
 - (ii) What is the use of adding a small quantity of decayed compost in to the compost mixture?
- (D) The following illustration is about the two instruments which is used in the laboratory. State one use of each instrument.



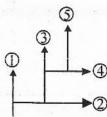
(b)



(03) (A) A given below is a transverse section of an Ipomea flower.



- (i) Mention the things represented by each of the following symbols of the floral formula of this flower.
 - a. C₍₅₎
 - b. A.
- (ii) What is the function of sepals?
- (iii) Write down two features that can be seen in a flower pollinated by wind.
- (iv) Mention the changes that take place in the following parts of a flower when becomes a fruit.
 - a. Ovary wall
- b. Ovary
- (B) The diagram below shows the position of flowers in a certain inflorescence.

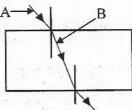


- First flower occurs at the apex of the bud.
- Second flower occurs at the apex of a new bud formed from the first bud.
- The third flower occurs at the apex of a bud of the second flower.
- (i) Is this inflorescence racemose or cymose?
- (ii) Mention the sub type of the above inflorescence in which the above shown inflorescence belongs to.
- (C)



- (i) Mention the type of fruit in which the jak fruit belongs.
- (ii) What is represented by a floret of a jak fruit?

(04) (A) Given below is a set up for an activity to find out how light travels through a glass block.

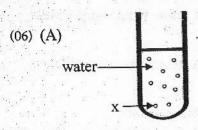


- Name the two rays A and B.
- (ii) What is the name given for the change that take place when light travels through the glass block?
- (iii) Write a natural phenomena that occurs as a result of the above mentioned behaviour.
- (B) Sound as well as light travels to another direction when it hits a surface.
 - Doors and windows are vibrated as a result of lightning. What is the phenomena related to above behaviour?
 - (ii) Write one strategy used to avoid echoing in cinema halls.
- (C) Drought is a natural disaster. It occurs as a short term drought and a long term drought.
 - What is meant by drought? (i)
 - (ii) Briefly explain how the drought will effect on generating energy.
 - (iii) Write a natural phenomena that effect on Tsunami.
 - (iv) Write a protective activity you should be taken when you are informed a tsunami condition.
- (05) (A) The time taken by three students who ran 100 m in a linear path is mentioned in the table given below.

Name*	Time taken (seconds)
Amal	22
Latheek	20
Suraj	23

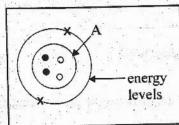
- Calculate the speed of Latheek. (i)
- (ii) What is the reason for naming speed as a scaler quantity?
- (iii) Write the formulae for calculating velocity.
- (B) Wheel brace and grinders are two equipments used in repairing vehicles. *
 - (i) Write one use of each equipment mentioned above.
 - (ii) What is the use of having a tool board in a place where motor vehicles repair?
 - (iii) What is the use of disc plough in an agricultural work site?

- (C) Energy resources in the world are divided into two as primary and secondary energy resources.
 - state a situation where primary energy resources are used to produce secondary energy resources.
 - (ii) Mention one problem when using solar cells.
 - (iii) write a crisis that can be faces when using excess grains to produce ethanol.
 - (iv) write a way that you can contribute to conserve energy.

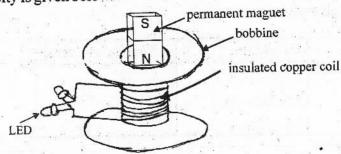


Give below is a set up prepared to identify the evidences of a chemical reaction.

(i) Name a suitable substance for x if the text tube became cool



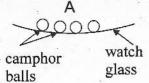
- (ii) Name the part A in this diagram of atom.
 State a failure of Dalton's atomic theory.
- (iii) Write a fact of Dalton's atomic theory which was broken down.
- (B) A balanced diet should be taken to maintain a healthy body.
 - (i) Mention the type of nutrition responsible for the growth of the healthy body.
 - (ii) What is the text done in order to identify the above mentioned nutrient?
 - (iii) Mention the catergory in which glucose and sucrose belong.
- (C) Different methods are used to generate electricity in day to day life. A set up used to generate electricity is given below.

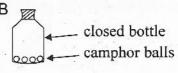


Fill the table using the above activity.

Activity	LED glows LED doesn't glows
A. Magnet doesn't move. coil moves	
B. coil doesn't move. Magnet moves	

Given below is an activity done by a student using camphor balls.

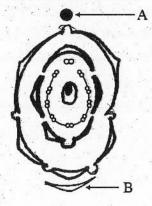




(ii) Write down the observations insize of camphor balls in A and B after two weeks.

A B

- (iii) Explain the reason for the above observation.
- (07) (A) (i) Write down the two main theories related to location of the celestials objects.
 - (ii) State the number of rotations occur during one revolution of the earth
 - (B) (i) What is the name given to the gaseous cloud which form the stars?
 - (ii) State the name given for the final stage of a star
 - (iii) Name the constellation in which the brightest star 'series' belongs
 - (iv) Mention an advantage of studying constellations.
 - (C) Given below is a floral diagram of sesbania flower.



- (i) How many petals are there?
- (ii) How many parts are there in the Androceum
- (iii) Write the pattern of arangement of androceum
- (iv) Name A and B