Barge Glad critica gas with days age All lights become

Southern Provincial Department of Education

Year End Test - 2018

Science Grade 07

	Grade 07						
Nar	ne / Index No			Time - 2 b	ours		
• A	nswer all questions.	THE RESERVE OF THE PARTY OF THE	- market and	rischbaredail (C			
	nderline the most Suita	The same of the sa	traffic and the second second				
			or paper 02 together and	The Control of the Control			
(01)	The gas that helps to m (1) Oxygen	aintain the temperature (2) Nitrogen	of the earth in an optimum (3) Carbon dioxide	level is, (4) Argon			
(02)	Which of the following (1) Distance and displ (3) Time and force	g answer shows the quar lacement	ntities with both magnitud (2) Force and displa (4) Distance and for				
(03)	The appliance that con (1) electric motor	verts kinetic energy into (2) simple cell	electrical energy is, (3) electric fan	(4) dynamo			
(04)	The amount of light en (1) mirror	ters to the specimen in the (2) objective lens	ne compound microscope (3) eyepiece	is controlled by, (4) diaphragm			
(05)	Igneous rocks are form (1) metamorphing lim (2) metamorphing gra (3) cooling lava (3) skeletons of marin	restones	eted to high pressure				
(06)	A - air	B - steel	C - water	emelet (c			
	The correct answer wh	en the speeds of sound of (2) B, C, A	fA, B,C media are arrang (3) B, A, C	ed in the ascending order is	5,		
(07)	Which of the following (1) doing photosynthe (3) making new plants		at leaves? (2) making fruits (4) storing water	reducing to (f)			
(08)	A student saw these fea • Fibrous root sys • Parallel venstion • Timorous flowe This plant can be, (1) beans	n	ved. (3) kottamba	(4) jak			
(09)	A- Dynamo	etricity used in various in B - Drycell licity that produce direct	istances are shown below. C - Solarcell				
	(I) A,B	(2) B,C	(3) C, D	(4) A, D			
(10)	Which of the following	answer shows an acid	a base and a neutral subste	nce in sequence?			
	(!) vinegar, distilled w		(2) lime water, vineg				
	(3) vinegar, lime juice		(4) lime juice, soap v	CONTRACTOR OF THE PARTY OF THE			

(11)	This diagram shows an (1) melting point of ice (3) freezing point of wa		tory. The reading of the the ground of water temperature	Thermometer gives, Thermometer Toe Funnel Beaker		
(12)	This diagram shows a cardboard.	lighted a torch which is p	placed in front of a screen	en, small ball and a piece of		
	Whatesa he observed a	fter this activity, piece of care	dhoand			
	(1) Clear umbra is form		(2) Unclear umbra is f	ormed on the screen		
	1.	ora are formed on the scree		ed on the screen		
(13)	What property of water	helps to decrease the them	nometer reading in B?	Thermometer		
	(1) Cooling property		32°C	27°C		
	(2) Solvent property			# 1 1 # 1		
	(3) Insulating property		Dry	36 C3 86 C3 Wel		
	(4) Conducting proper	ty	cotton	COHOL COHOL		
(14)	of the test tube B from i	Is bottom when water in A		n height as shown. The height		
	(1) 4cm	(2) more than 4cm				
	(3) less than 4cm	(4) 2cm	market with a series	vuler 2cm 2cm soil		
(15)	This diagram shows an electron microscopic view of an organism. What is this organism?					
	(1) paramecium	(2) AIDS virus		0 0		
	(3) euglena	(4) bacteria		0		
(16)	In which organ of the di	gestive system absorbs di	gested food?			
	(1) Small intestine	(2) Large intestine	(3) Oesophagus	(4) Stomach		
(17)	The answer which show	vs the deficiency diseases	of vitamin D and vitamin	C in sequence is,		
			oums.			
	(2) weakening the memory power and decaying gums (3) rickets and decaying gums					
		ment of bones and letharg	le			
(18)				h the conductor is known as,		
	(I) electro magnetic in	duction	(2) static electricity			
	(3) current electricity		(4) an alternating curr	ent		
(19)	The incorrect statement regarding the static electricity is, (1) objects are not charged before rubbing.					
	(2) They repel when positively and negatively charged rods are brought closer. (3) Melike charges are controllined when charged shiests control with such other.					
	(3) Unlike charges are neutralized when charged objects contact with each other. (4) Thunders are formed due to static electric charges formed on clouds.					
(20)		egarding the sustainable u	se of energy sources is,			
	1 1	g sources of energy should	1 be decreased			
		hicles should be increased				
		g methods should be used		transporting methods.		

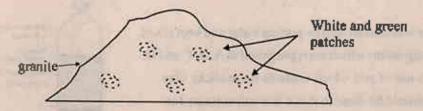
Paper II

- Question No. 01 is compulsory.
- Answer question No. 01 and 04 more questions.
- (01)(A) The table below shows several organisms observed by a group of children who participated in a field trip.

Animals	leech, worm, bulath hapaya, tizard, spider
Plents	monara kudumbiye, ferns, kuppameniya, bamboo, ginger

- (i) Write the relevant plant from the table for the question (a) to d.
 - (a) A monocotyledonae plant
 - (b) A non-flowering plant
 - (c) A plant with an under ground stem
 - (d) A plant with a tap root system
- (ii) Classify all the animals given above for the two groups shown below.
 - (a) Vertebrates

- (b) Invertebrates
- (iii) What do you call the "blending of body colour to particular environments"
- (iv)Name an animal that can blend its body colour according to environment selecting from the above table.
- (v) Mention an advantage obtained by the animal by changing it's body colour in that way.
- (B) (i) Classify the sources of energy shown below as renewable energy and non-renewable energy sources.
 Sun, Coal, Mineral oil, Bio mass
 - (ii) Solar energy is a cheap source of energy which does not pollute the environment, Write two reasons for not popularizing it yet in Sri Lanka.
- (C) This diagram shows a big granite with white and green patches on it.



- (i) What are these patches which help for the weathering of rocks?
- (ii) Name to groups of organisms living in these patches.

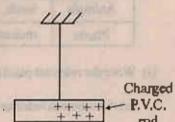
(02) (A) This note shows the organizational levels of organisms bodies.

Cell \rightarrow A \rightarrow Organ \rightarrow B \rightarrow Organisms

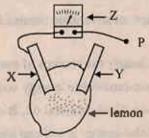
- (i) Name A and B organizational levels.
- (ii) Name a unicellular organism,
- (iii) What is the instrument used in the laboratory to identify them.
- (B)One end of a P.V.C tube was charged by rubbing with polythene. This diagram shows

how it is balanced by hanging on a stand.

- (i) What is the charge gathered in the polythene membrane used for rubbing?
- (ii) What can you observe when a positively charged glass rod by rubbing with silk is brought closer to the charged end of the P.V.C tube.



- (iii) What conclusion can you make by this observation.
- (C)(i) Name a strong acid present in the laboratory.
 - (ii) What will be the colour of pH paper, when a piece of pH paper is put into this acid
 - (iii) What is the reagent given to normalize the acidic nature in the stomach?
 - (iv) A piece of red litmus turns into blue when it is put into a certain solution. What can be this solution?
- (03)(A) This diagram shows a device prepared by using a lemon to obtain electricity
 - (i) Name the instrument Z.
 - (ii) Name two metals that can be used for X and Y metal plates.
 - (iii) When the Prerminal is connected to Y, What observation can be seen in Z?

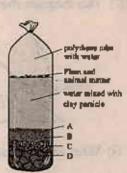


- (iv) Is the current produced here direct current or alternating current?
- (v) Mention 2 methods that can be used to increase the efficiency of a dynamo which is used for generating electricity.

-04-

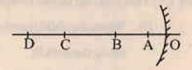
- (B)(i) A soil sample was shaken well by putting water and kept silent.

 Name it's components which are represented as A, B, C and D.
 - (ii) (a) Write a use of soil which contains more sticky clay.
 - (b) What should be done to make this soil suitable for agriculture?

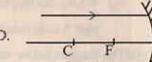


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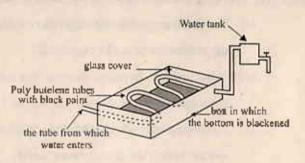
(04) (A) This set-up can be used to observe the images made by a concave mirror by placing a lighted candle on A, B, C, D places. The distances between OB and BC are equal. When the object is placed on C the image obtained is similar to the object.



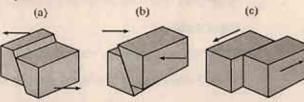
- (i) Write another feature that can be seen when the object is placed on C.
- (ii) On which place out of A, B and D should the object be placed to obtain an upright image?



- (iii) Write a feature of the image obtained when the candle is placed on D.
- (iv) Write 2 instances where concave mirrors are used in day to day life,
- (v) Complete the path of the beam of light shown in this diagram
- (B) Bi-urette test is done to show that eggs contain Proteins. First 2ml of sodium hydroxide is added to a solution made by dissolving albumin in water.
 - (i) What is the other chemical used in this activity?
 - (ii) Mention the final observation obtained?
 - (iii) Name 2 plant food items that supply the same nutrient supplied by eggs for a person who does not eat eggs?
 - (iv) What is the nutrient out of all nutrients that gives the highest amount of energy by one gram?
- (05) This diagram shows a set-up prepared to obtain hot water using solar energy.
 - (i) What is the reason for painting black colour inside the box?
 - (ii) What is the method of obtaining heat by water in the tank?
 - (iii) What is the reason for covering the surface of the box by glass?
 - (iv) It is said that metals are not suitable for making the water tank. Explain the reason for it,



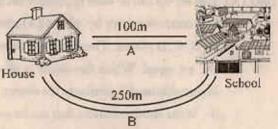
- (B) These diagrams show 3 ways of moving tectonic plates.
 - (i) Mention two instances out of them that an earthquake could occur.
 - (ii) In which instance could a deep gulf occur?



- (iii) In which layer in the earth do these moving tectonic plates locate?
- (iv) Write a specific feature of rocks present in this layer.
- (v) What instrument gives us prior notices about earthquakes?

(06) (A) This diagram shows two paths for a child to go to his School from his house.

- (i) When the child travels to school from home along the path B,
 - (a) What is the distance traveled by him?
 - (b) What is his displacement?



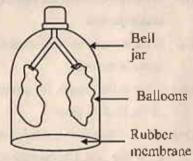
- (ii) What is his displacement if the child travels from house to his school along the path A and come back?
- (B) The diagram below shows an instrument that can store charges.
 - (i) What is this instrument?
 - (ii) You are supplied with conducting wires, a battery with 3 dry cells, draw a circuit diagram using symbols that can be used to store charges in this device.



- (iii) What unit can be used to measure the amount of charges?
- (iv) What is the instrument present in the laboratory that can be used to identify static electric charges?
- (C) Answer the questions below using the layers of the atmosphere,
 - (i) In which layer in the atmosphere do people live?
 - (ii) In which layer can the ozone layer be seen?
 - (iii) In which layer is the International space station situated?

(07) (A) This diagram shows a set-up prepared to demonstrate the human respiratory system.

- (i) To which organs in the respiratory system can the rubber balloons be equalized?
- (ii) What change should be done in this model to demonstrate the process of inhalation?
- (ii) To demonstrate which part of the respiratory system is the rubber membrane fixed?



(B) The set-up shown below is placed on a tripod and heated hard by using a burner.

- (i) What is the observation you can see when steam comes out of the hole?
- (ii) Name the type of energy which produces steam.
- (iv) Write 2 other actions that can be done by using this energy.

(C) How do these musical instruments produce their sound?

