

ෙදේව් බාලිකා විදාහලය - කොළඹ Devi Balika Vidyalaya - Colombo

		කුමණය - 2012				
	First lerm	Test - 2012				
	Science	e - Part I				
Grad	de 10		1 1	1/2 hours		
Nam	ne:		Inday No.			
			Index No.:			
Ur	nderline the most suitable answer.					
01)	The main classification of living organism	ms is				
Re	i) Plants, animals, bacteria	ii) Plants, animals, ve	ertehrate			
	iii) Plants, animals, micro-organism	iv) Vertebrats, inverti				
	an American group of the con-	- university of the second of	brates, plants			
02)	The animal groups containing worm bloc	oded animals are				
	i) Reptiles , mammal	ii) Mammal , bird				
	iii) Amphibians, Pisce	iv) Bird , Pisces				
		- Seri - Stridg (i) - S				
03)	The animal having body with a shape of an unfolded umbrella and several tentacles around					
	the edge is	ac (O) any ark measing				
	i) polyp ii) Sea anemone	iii) Hydra	iv) Jelly fish			
	0.00		over store is			
04)	Following feature, can be seen in a samp	ole of seeds collected by	a students			
	a) Fruit is not available around the seed					
	b) Seeds are located on a cone					
The t	ree containing such seed can be					
	i) Flowering plants	ii) Monocotyledonous	i ilanci			
	iii) Dicotyledonous	iv) Non-flowering plan	nts with seeds			
05)	A 'thallus' is a					
	i) A body not differeciated into parts					
	ii) A body differenciated into roots, stems					
	iii) A body containing chlorophyll and diffe	erenciated into parts				
	iv) A body spreads on land					
1002200000						
06)	The main function of mitochondria					

i) controll, cell activitie

iii) Producing energy by respiration

ii) Producing food by obtaining sun light

iv) Transporting substances

07)	The main difference between a plant cell and an animal ceel is, that in a plant cell, i) A cell wall is absent and a plant cell wall is present							
	iii) A nucleus is pre		iv) A plasma mem					
08)	A cell is observed b	A cell is observed by a microscope for the first time is						
	i) Robert hook	ii) schleidon	iii) shwan	iv) carrolus linnaeus				
09)	The type of cell with	The type of cell with out containing chloophyll is						
	i) Spongy paranchy	yma	ii) pallisade paran	chyma				
	iii) Epidermal cell		iv) Guard cell					
10)	Example of collenc	hyma cell is						
	i) Guard cell	ii) stone cell iii)	phloem paranchyma	iv) Epidermal cell				
11)	The bicen muscle n		es entro-organism					
11)	i) Unstraited	resent in the upper a						
	i) Oristrailed	ii) involuntary		e iv) Smooth muscle				
12)	The boost wood of a	ii) Mammal, bir						
12)	The heart wood of a			Lenadolari/- (el				
	i) xylem tissue	ii) phloem tissue						
13)		Ean unfolded umbrella n a rebnu bevreado e ") Hydra mple o setts villecto						
14)	Water is absorbed t	hrough root hairs by						
	i) osmosis	ii) Diffusion						
	iii) Root pressure	C.Coocuou (u						
15)	A method of transpo	ortation using energy i	s					
,	i) Diffusion		ıtion iii) Osmos	's iv) Root Pressure				
	, 2							
16)	The main factor which facilitates ascent of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sap is vrigo to the same as a second of sa							
10)	i) Root pressure	ii) capitary action						
	i) Noot pressure	ii) capitary action	iii) Osmosi	is iv) Transpiration pull				
17)	The leaves are cut o	ff when re-planting ce	ertain plants such as b	anana. The reason for this				
	eisnus grimatida valt							
	 To reduce transpir 		ii) To prevent uprod	oting the plant due to wind				
	iii) To make the ster	n - light	iv) To come out bu	ds quickly				

10)	ASCELL OF	sap means	ARCHITECTURE AND ARCHITECTURE A
	i) Water tr	ansports from root hairs to x	ylem in the roots
			rd inside the plant body, absorbed by root hairs
	iii) Tranloc	ation of food through out the	plant body
		ng water vapour from plant i	
		y participation	\$ 1 (8) 1 Q
19)	'Heamophil	lia' is ,	
		condition occur due to lack	of iron
		tion spreads through contact	
		tary discase disease	
		se spreads by mosquitoes	
		or opioado by mosquitoes	
20)	A method o	f effective participation of er	adicating dengue as a school students is,
	i) Using mo	osquito net when sleeping	
		osquito coils	ii) Destroying mosquito breeding places
	m, comig m	osquito cons	iv) Applying cream on body
		Pa	rt - II
		The state of the s	To an an earlier of
* Ans	wer only 3 Qu	uestions	(2)
	,	1	
01)	Classification	on & nomenclature of organic	sms can be done considering the characteristics
	of organism	?	sine dan be done considering the characteristics
	121		
	i) State	the main criteria used to cla	ssify animals
	,	The main officina asca to cla	osily ariiiriais
	ii) Follo	wing is a dichotomous key u	sed in animal classification. Name X & Y of it
		g to a dionotomous key a	Y
	iii) Com	plete the dichotomous key u	sing the follwoing organisms.
		nandor , Bat , carb)	h , Mango , Turtle , coconut , penicellium ,
	Saleri	nandor, bat, carb)	
			×
		$\overline{}$	\
	Ļ	Y	Vertebrates
			454 Control Control (Annual Control Co

1100						
		Name 2 non - flo		the state of the s	olants	
		Non - flowering	1	10 to	2	
		flowering	1		2	1.00171(3)
	vi)	In which plant th	e seeds are n	not produced.		
		Name the group i) Group		elongs and writ	e 2 characteristic	s of that
	s. cos Valvár	ii) Characte	eristics	1) 2)	correspondentes de la companion de la companio	
	viii) a	a) Who intro	oduces the no	omenclature.		
	!	b) What is th	ne name of tha	at nomenclature)	********
	ix) I	Name the two te	rms include ir	nit.)	5 = 20°
	1	Name the nation Nationla flower Scientific noment			according to abov	re nomer (
02)	Cell is th	he basic building	unit of organ	ism. A tissue is	a collection of cel	ls.
ä	A)					
		A		В .		C
	i) N	Name A,B&C				
	A	٠				
	Е	3				

	ii)	'A' is a one type of animal tissues. Name the other two types of animal tissues. a) b)					
	iii)	State a main difference between tussue 'B' & sclerenchyma tissue.					
	iv)	What is the function performed by the tissue containing 'C' in a plunt body.					
	V)	Name the tissue present in herbaceous stems and near midrib of leave ?					
	vi)	Name 2 type of Paranchyma tissues present in a plant leaf a)					
	vii)	Write the organizational levels of an organism.					
B)		Removing water as water vapour through plant sarfaces during day time is known as transpiration.					
	i)	What is the instrument used to measure the rate of transplation					
	ii)	State 2 steps should be followoed when fixing the twig to this aparatus.					
		b)					
	iii)	State assumptions used in here. a)b)					
	iv)	State 4 affecting factors of transpiration a)					
	v) .	State 2 adaptations of xerophyts to reduce transpirations. a)					

di.	vi)	State 2 differences between transpiration & guttation.
		1)
		2)
03)	A pl	ant leaf is similar to a factory when concidering the process of producing food in it
	i)	What are the raw materials obtained by leaf for it
		1)
		accused the calour social publishment of straining and accusing the
	ii)	What is the energy used in it
	iii)	What is the main product in it
	iv)	What is the by-product in it
	v)	Draw labelled diagram of a set-up which can be used to demonstrate that above mentioned by-product is released.
	vi)	What is the name of the above mentioned process
	vii)	State 2 adaptations of plant leaves to increase the efficiency of that process
		1)
		2)
	viii)	Write a ballenced equation for the above process
B)	Follov	ving are some steps of testing starch.
	-	1. 2. 3.

	i)	Name the above steps				
		1)				
		2)				
		3)				
		paginamunet, is but and make as a Min Birtingary in the				
	ii)	What are the reasons for step I & II				
	")					
		i)				
		ii)				
		NAME - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
	iii)	What is the precausion in used				
	iv)	What is the reason for using such precausion.				
		(20 marks)				
04)	Blood	transport various substances through out the body. Following is a diagram of a				
		r of blood under microscope				
	CO O O O					
		60,000 By C				
	i)	Name A, B, C				
	'/	4_0600000000000000000000000000000000000				
		АВ				
		C				
		manufacture of the second seco				
	ii)	Write the functions of				
		A B				
		C				
	iii)	Human blood is red in colour. What is the Yeason for it				
		73.35 (1.75) 1.75 July 2.50 X 7.00 X 7.00				
	iv)	The persons having which blood groups known as universal donar & Universla				
	30	recipient in blood transfusion.				
		a) Universal donar				
		b) Universal recipient				

v)	Can you donate blood as a	student in grade 10 Give reasons for your answer
		······································
B) Fo	llowing diagram shows the intern	al structure of the human heart
		1. A language and the make
		F.
	A	
	le de la companya de	C D.
i)	Name the part A - F	
	Α	
	C	
	E	F
ii)	Which chamber has the thick	cest wall
iii)	Explain the reason for it.	
,	Explain the reason for it.	
iv)	State 3 substances transporte	ed by blood plasma and give one example for each.
	a)	
	b)	0.00
	c)	
v)	What is the blood pressure of	2 8 7 1 2 2 2 4 1 4 1 1 2 2 2 2 4 4 4 4 4 2 2 2 2
٧)	What is the blood pressure of	
	•••••••••••••••••••••••••••••••••••••••	

vi) State 2 steps you can follow to maintain the proper health of the blood circulatory system.

(20 marks)

