

ZONAL EDUCATION OFFICE - JAFFNA

2nd TERM EXAMINATION - 2017



SCIENCE

Index No :		Grade: - 9	Time: 2.00 hours			
	PART - I					
444	Choose most appropriate answer.					
(01)	Instrument that is used to obs	erve celestial bodies				
	(1) Light microscope	(2) Compass				
	(3) Telescope	(4) Electrone micr	'oscope			
(02)	Method that is used to arrive of	correct conclusion by doing experimen	t ahout a problem			
	(1) Logical method	(2) Scientific meth				
	(3) Experimental method	(4) Research meth				
(03)	How can you call the constitue	ents that are separated out during fract	tional distillation?			
	(1) Hydro carbon	(2) Primary energy				
	(3) Secondary energy	cation (4) Primary energy	y source · .			
(04)		abstances together, heat was felt. Wha	it is the change that took			
	(1) Physical change	(2) Chemical chang	ge•			
	(3) Physical and chemical char	අධ	යා පන			
(05)	· ·	motion of a person. Find out the total	•			
	distance travelled by this perso	on	A 5 km			
	(1) 5 km	(2) 0 km	4 km			
•	(3) 14 km	(4) 4 km	D			
(06)	What is the displacement of ab	ove mentioned motion?				
,	(1) 14 km to the east	(2) 5 km to the wes	st			
	(3) 10 km to the south	(4) 4 km to the sou	th			
(07) Who put forwarded the law of conservation of mass at first?						
	(1) Anthoine Lavoisier	(2) John Dalton				
	(3) Aristorcus	(4) Kepler				
(80)	Chemical formula of potassium	permanganate is KMnO ₄ which eleme	ent is not present here?			
;	4.15	nganese (3) Oxygen	(4) Magnesium			
(09)	Which is used to make non stic	k pans for cooking purpose				

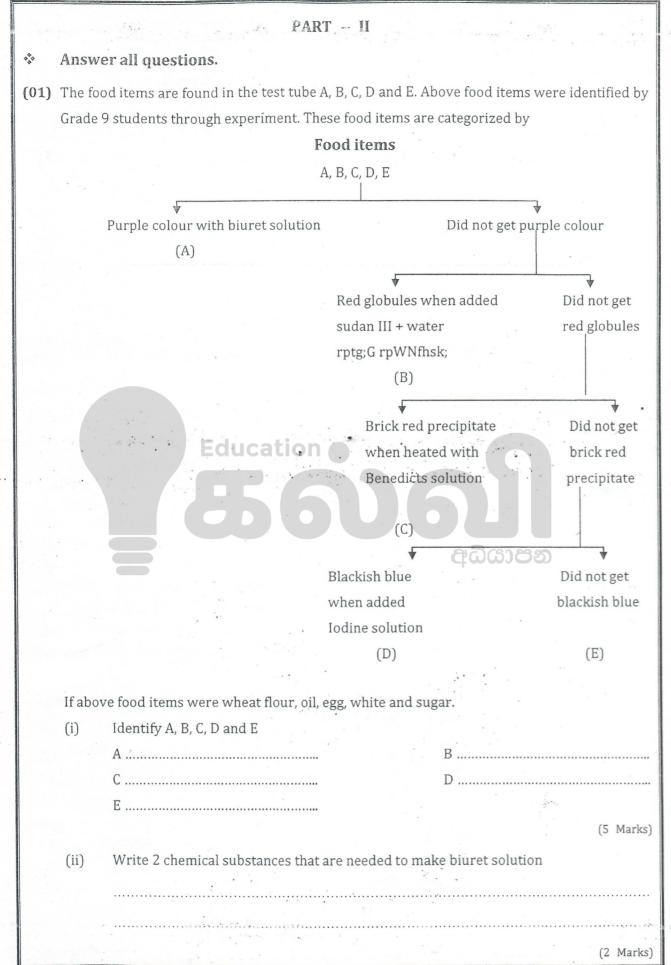
(1) Nylon

(3) Teflon

(2) Perspex

(4) Poly ethelene

(10)	Parts of gynaecium that (1) Stigma, Style, Ovary	t present in dicot flower	(2) Filament, Anther		
	(3) Style, Ovary, Filame		(4) Style, Ovary, Anth	eŕ	
(11)	Which one is not a natu	ral polymer?			
	(1) Starch	(2) Glycogen	(3) Chitin	(4) Nylon	
(12)	Compositions that are u	used to make alloy 'pewter	r'		
	(1) Zinc, Gold, Copper		(2) Zinc, Copper, Anti		
(4.0)	(3) Copper, Tin, Lead		(4) Nickel, Chromium		
(13)	Nanometer is used in nanometer?	the field of Nanotechr	iology, How many m	eter is equal to one	
	$(1) 10^{-6} \text{ m}$	$(2) 10^{-8} \mathrm{m}$	$(3) 10^{-10} \text{ m}$	(4) 10 ⁻⁹ m	
(14)	Which is the quality ce	ertification provided for r	naintaining high stand	ards of production in	
	(1) SLS	(2) ISO 9001	(3) ISO 22 000	(4) ISO 14001	
(15)	Which is the element th	at will burn with blue flar	ne		
*,	(1) Magnesium	(2) Carbon ation	(3) Iron	(4) Sulphur	
(16)	This symbol wa	s used during the Alchemy	y era. This indicates		
	(1) Antimony	(2) Copper	(3) Arsenic	(4) Iron .	
(17)	What is the main comp	onent of biogas	අධ	යාපන	
	(1) Carbon dioxide	(2) Methane	(3) Water vapour	(4)Hydrogen sulphide	
(18)	Incorrect statement abo	`			
		arked from top to bottom	uld he washed out with	distilled water	
	(2) Before measuring the volume of liquid, it should be washed out with distilled water.(3) It has to be kept vertically when handling				
	(4) Always it measures	the volume of adding liqu	iid into burette		
(19)	Which is the element de	enoted by the symbol 'Hg	,		
	(1) Mercury	(2) Gold	(3) Lead	(4) Silver	
(20)	'Connecting people to be expected through th	nature' is the theme of end is theme?	nvironment day for thi	s year. Which one will	
		ture Therefore should con eted together with nature	nect with nature		
	(3) People want to prot				
	(4) People want to life	together with nature with	out pollute the nature.	The contraction of the contracti	
				$(20 \times 2 = 40 \text{ Marks})$	



(iii) Gir	ve a chemical substance that is used to dissolve Iodine	**************************************
(iv) When sudan III is not found in the laboratory, what can items?		hen sudan III is not found in the laboratory, what can you do to identify ems?	(1 Mark) the food
(v)	Giv	ve 3 importances of food	
(vi)	 Wr		3 Marks)
(vii		ctors say that intake too much of carbohydrate is not good. What is the dise	
			2 Marks)
(02) (A)	Micro	o organisms are the causes for useful and harmful effects in our day to day l	
	(i)	Name 2 micro organisms	ire.
		අධ්යාපන	
Management of the Common Commo	(ii)	Write 2 instruments that are used to observe the micro organism	(1 Mark)
			1 Mark)
	(iii)	Mention the types of micro organisms that are used to produce antibiotic	S
	(iv)	The word will become garbage heap when there is no micro organism. Your idea about this statement? Mention 2 types of micro organisms the help in this situation?	1 Mark) What is nat will
<i>I</i> ,	(v)	Mention 2 harmful effects of micro organism	Marks)
Jaffna Zone			

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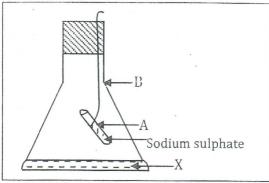
(B)	Energy sources existing in the world are getting depleted rapidly due to the increase in energy consumption and the increase in the use of fossil fuel. Therefore alternative		
	way:	s are searched to overcome energy crisis.	1
	(i)	What is energy crisis?	
			(1 Mark)
	(ii)	Mention 2 reasons for this	
		*	
			(1 Mark)
	(iii) Give 2 examples for fossil fuels	(1 mark)
	(,,,		
			.,
			(1 Mark)
	(iv) What is the main component of biogas?	
	(**)	White 2 things that are used to make his dissal?	(1 Mark)
	(v)	Write 2 things that are used to make bio diesel?	
		Education	(1 Mark)
			8.
(03) (A)		අධ්යාපන	
		Zn—Cu	
	(i)	Identify it.	
			(1 Mark)
	(ii)	Which is the electrolyte used here?	
	(111)		(1 Mark)
	(iii)	Identify the positive and negative terminal of this.	
		Positive terminal	
		Negative terminal	(1 Mark)
	(iv)	Mention 2 demerits of this cell	(r mark)
	(14)	Mention 2 deficites of this cen	
			(1 Mark)

(i) Electrolyte Negative terminal (1 Mark) (ii) A particular dry cell is indicated by 'HEAVY DUTY' type which are the substance found here? (1 Mark) (iii) What is the common problem that will arise by both cell mentioned in A and B (iv) What is the secondary cell that was made to overcome above mentioned problem? (v) Write the voltage of electric cell that was mentioned in question (iv) (1 Mark) (vi) Give 2 eco friendly methods which are used for generating electricity?		ntion the substances that are used as	
Negative terminal (1 Mark) (ii) A particular dry cell is indicated by 'HEAVY DUTY' type which are the substance found here? (1 Mark) (1 Mark) (2 Mark) (3 Mark) (4 Mark) (6 Mark) (7 Mark) (8 Mark) (9 Write the yoltage of electric cell that was mentioned in question (iv) (1 Mark) (1 Mark) (1 Mark) (2 Mark) (3 Mark) (4 Mark)		A B C	
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(iii) What is the common problem that will arise by both cell mentioned in A and B (1 Mark) (2 Mark) (3 Mark) (4 Mark) (5 Mark) (6 Mark) (7 Mark) (8 Mark) (9 Write the voltage of electric cell that was mentioned in question (iv) (1 Mark) (1 Mark) (1 Mark)		tound nere?	
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(v) Write the voltage of electric cell that was mentioned in question (iv) (vi) Give 2 eco friendly methods which are used for generating electricity?	(iv)		(1 Mark problem?
(vi) Give 2 eco friendly methods which are used for generating electricity?			
(2 Marks)	(v)	Write the voltage of electric cell that was mentioned in question (iv)	(1 Mark
(2 Marks)			
			*
			(1 Mark

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(94) (A) This practical setup was arranged by Crade 9 students to confirm that the law of conservation of mass.



(i)	Name the substance that is used to make A	
	Mention the feature of stopper, for that it	
		(2 Marks)
(ii)	Write the chemical substance 'X' that was taken into B	
C:::3	Education	(1 Mark)
(iii)	What is the reason for that applying grease at the stopper?	
(iv)	Write your observation when tilting the setup for mixing two solution?	(1 Mark)
(10)	write your observation when thing the setup for mixing two solution?	
	4000000	
(v)	What is the reading that should be taken here initially and finally?	(1 Mark)
(*)	what is the reading that should be taken here initially and initially:	
		(1 Mark)
(vi)	What do you say about these 2 readings [Readings were taken before and	. ,
	reactions].	
	•	(1 Mark)
(vii)	Mention the law of conservation of mass from this activity?	
	······································	
		(1 Mark)
In sch	nools, Awareness programme is carried out to restrict the usage of polythene	
(i)	Polythene is an artificial polymer.	
	Mention the monomer of it	
	And the monomer of it	
		(1 Mark)

(B)

(ii) Give 3 special features of polythene?					
*	(iii) Mention 3 pro	oblems that are faced by polythene ι	City Company of the C		
52-2			(1 Mark)		
(05) (A)		ng questions using given data. ace and occur in the form of metal str	nin		
		e and black coloured substance with			
	C - Yellow color				
*	(i) Identify above	e elements			
		Education			
		eased a gas when added with dilute	(3 Marks)		
	metal				
			අධ්යාපන (1 Mark)		
	(iii) Write the wor	d equation for the reaction mention	ed in questions (ii)		
	(1.2. 717)		(1 Mark)		
	(iv) When a substa	ance burnt, a gas was released with o			
	(v) Write the harmful effect caused by that gas				
(B) Complete the following.					
	Alloy	Composition	Characteristics		
	i)	Cu, Zn	golden colour Moderately rigid		
	Bronze	ii),, ,,	does not corrode does not wear off easily		
	iii)	Ag, Cu	Stronger than silver and shinny		
	iv)	Fe, Ni	Thermal expansion is very		

low

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