Second term tests

Unit 1 test

<u>1)Write an ea</u>	quation for each of	the three next obser	vations of the fol	llowing practical
<u>experiments:</u>	Limewater	- Stopper - Dil. HCI Sodium carbonate	Dil. HCl Zinc	HgO
•••••				
•••••	•••••••••••		•••••••	
2) Complete	the following statem			
			of the comp	ounds by the effect of
	and reduction are tw			
				order according to the
degree of the	ir	-		_
	of the reaction, the			becomes100% while the
	n of			
-	d lemon contain	acid.	Y	
3) Give reaso				
1) Food must	be heated during its	preparation.		
2) Aluminum	wire burns inside a	jar filled with oxyg	en faster than the	burning in atmospheric air.
3) Calcium a	nd magnesium mine	rals are very importa	ant specially for c	hildren.
4) Milk is con	nsidered a colloidal	mixture.		
5) Although ((Al) comes before ((Zn) in chemical ac	tivity series but i	t takes a short period of time
-	hydrochloric acid.	(- ,		
•••••				

4) From the opposite figure, answer the following:

1. Show by symbolic equations the name of the evolved gas in both tubes (A) & (B) 2. What is the name of the liquid which is formed in tube (C)? (B) - (A)(C) $Cu(OIE_2)$ (C) $CuSO_4$ With my best wishes

Science, 3 rd prep.

Second term tests

Unit ^۲ test

1) Write the scientific term:

1. Atoms which have unstable nuclei.		[]
2. The measuring unit of absorbed radiation.		[]
3. The electric state of a conductor that shows the tran	sference of electr		
when it is connected to another one.		[]
4. The resistance of a conductor that allows the passin	g of an electric c	urrent of 1 ampere thro	ough it
when the potential difference across its ends is 1 volt.		[]
5. The electric current of fixed intensity and direction.		[]
2) Give reasons for:		Y	
1. The nuclear energy is used to destroy mankind only	is not correct.		
2. The rheostat is connected in series in an electric cir	cuit.		
3. The voltmeter is connected across the two poles of	a battery.		••••
4. Electric current produced form electric generator is appliances.	used in lighting	and operating electric	
5. Some cells are connected in electric circuit in paral			
3) Problems:	, 		•••••
1. The potential difference between the two ends of a intensity passing in the conductor is 0.5 ampere what the conductor if it is connected with an electric source	is the electric cur	rent intensity passing the	hrough
2. What's the quantity of electricity which passes thro minutes when the potential difference across its ends	-	its resistance 1000 ohm	1 for 20
3- Calculate the quantity of electricity that flows throu passing through it is 30 amperes in 5 minutes.	igh a wire if the e	electric current intensity	у
4- You have 4 similar electric cells, the electromotive how can you connect them to obtain an e.m.f of;		1.5 volts, explain by dra	awing
a. 1.5 volts b. 3 volts	c. 6 volts	d. 4.5 volt	IS

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4) What's meant by:

1. Ohm's law:

2. Nuclear energy:

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Second term tests

Unit 3 test

Science, 3 rd prep.

1) Write the scientific term:

1. A chemical message that controls and regulates the activities and functions of most body organs.
2. Change in the nature of the hereditary factors that control the traits of the living organism.
3. They are parts of DNA on the chromosomes and control the hereditary traits of the individual.
4. The branch of science that aims to explain how different characteristics transfer through
generation.
5. A kind of hereditary trait that is always pure.
2) Give reasons for:
1) Man needs to make some mutations artificially.
2) Pituitary gland is called the master gland.
3) Mendel removed the stamens of pea plant flower before the maturation of the anther.
4) The ability of rolling the tongue is a dominant trait in the human being .
5) Pancreas is a double function gland.
<u>3)A- Problems:</u>

a. Two wide eyes persons crossed then two of their children had wide eyes and other two had narrow eyes, Explain on genetic bases the genetic structure of Parents and the children

B- Complete the following graph :



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C- Look at the	following f	ig then label it:	
1)		-	-
2)			
3)			
,			

Second term tests

Second term test

Science, 3rd prep.

1) Write the scientific term for the following statements:

a- The flow of electric charges in a conductor.

b- The electric current of fixed intensity and direction.

c- Parts of the DNA that presents on the chromosomes and carry the hereditary traits of the individual.

d- Change in the nature of the hereditary factors that control the traits of the living

organism, which results in a change in the traits of this living organism.

e- Mechanism with which hormone works inside the human body.

2)a- Choose the correct word:

<u>b- Calculate the potential difference of the two ends of a vacuum cleaner whose resistance is 22</u> <u>Ohm and the current intensity passing through it is10 Ampere.</u>

3) Give reasons for the following:

a- It is better to use the alternating current rather than the direct current.
b- The voltmeter is connected to both poles of the battery in the electric circuit.
c- Pituitary gland is called the master gland.
d- The rheostat is connected in series in an electric circuit.
e- A yellowish white color is formed on heating white sodium nitrate.

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<u>4)</u> *a*- If two pea plants one with hybrid red color flower and the other with white flower are crossed, explain on genetic bases the result of his crossing and the ration of the red flowered plant to the with flowered planet.

b- Compare between the following:

- a- The dominant trait and the recessive are one with giving examples.
- b- Heating of metal oxide and metal hydroxide.
- c- Saturated and unsaturated solution.
- d- Oxidation and reduction.