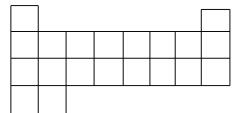
Zonal Education Office - Jaffna Unit Exam – 03 Science

Grade –10			Time – 40 minutes
I) Under line th	he most suitable answer		
01. Who put forw	ard the planetary model of	atom.	
1. J.J.Thomps	an 2. E.Rutherford	3. Chadwiek	4. Nellbhor
02. $^{27}_{13}X$ Give the	e group and period of the giv	ven element	
1. 3, 3	2. 3, IV	3. 4, III	4. III, 3
03. The number of	of neutron found in the isotop	pe protium	
1.0	2. 1	3. 2	3. 3
04. Mention Cher	nical formula of chloride of	X the chemical formu	la of oxide of X is $X_2 O_3$
1. XCl	2. XCl ₃	3. X ₂ Cl ₃	
05. Which one is	mentioned as sacrificing me	tal	
1. Na	2. Fe	3. Al	4. Mg
			(5x3=15 marks)
II) Mark Corre	ct (✔) or Incorrect (X)		
01. Cl_2O_7 is a strong base			()
02. Nitrogen is used as a filing gas in milk packets.			()
03. Ionization energy increases through period from top to bottom.			()
04. Sulphur is used for valganizing rabber.			()
05. Most of elements discovered recently are metals. (()
			(5x3=15 marks)

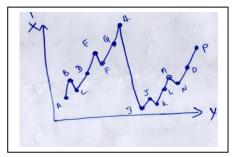
Part – II

01) i) Features of some elements are given below. Mention the suitable elements in periodic table in the proper place. Use give English letters. (English letters did not denote the symbol of elements)



A – Yellowish green gas.			
B - Gas found in high amount			
C – Elements used in preparing skin creams.			
D- Metaloid used to prepare solar cells.			
E – Non metal that conduct electricity and have allotrophs.			
F – Metal used to prepare Indigo dye.	(6x2=12 marks)		
ii) Chemical formula of the compound which is produced by the combination of A and F. (05 marks)			
iii) Write down 2 non crystal form of allorophs of element E.	(2x2=04 marks)		
iv) Name metals , Non metals and metalloid			
v) Draw electronic configuration of F.	(3x3=09 marks) (05 marks)		

02) The ionization energy pattern of period 2, 3 is shown in the graph given below



(05 marks)
Y
X
i) Which are denoted by X,Y axis

ii). What is meant by 1st ionization energy? Mention the unit. (05 marks)

iii) Write down the English letter v	hich denotes the element with highest ionization
energy in the graph?	(05 marks)

- iv) Which group has less ionization energy ? Write down the letters belongs to this group. (05 marks)
- v) Reason out why a ionization energy changes through period. (05 marks)
- vi) Write down the English letter belongs to the groups (05 marks)
- vii) Write down chemical formula of the compound (05 marks)