Year 10 Chemistry Practice Test 2018

Name: SOLUTIONS

Total Marks:

/24

Working Time: 35 minutes

Use the periodic table provided to answer the following questions:

1. Fill in the table below:

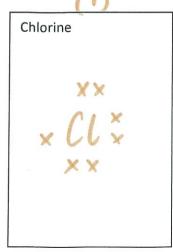
(4 marks)

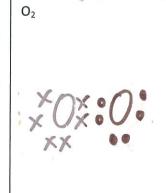
	pulses and applications applicated applications and applications are applications and applications are applications and applications are applications and applications are applications and applications and applications are applications and appli						
Atom/Ion	Name of atom/Ion	Number of Electrons	Number of Protons	Number of Neutrons	Electron Configuration		
F	Fluorine	9	9	10	2,7		
N ⁻³	Nitride	10	7	7	2,8		
K ⁺	Potassium	18	19	20	2,8,8		
Ca	Calcium	20	20	20	2,8,8,2		

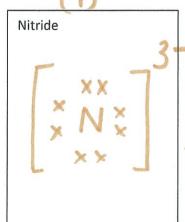
2. Using Magnesium (Mg) as an example, explain what the <u>periods and groups</u> of the periodic table represent: (4 marks)

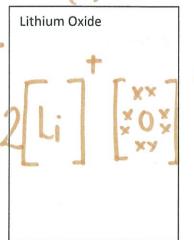
3. Draw electron dot diagrams for the following:

(4 marks)









4. Describe why covalent and ionic bonds <u>do not allow</u> electrical conduction, whereas metallic bonds do: (4 marks)

Metallic bonds have a sea of free flowing electrons which allow electricity (electrons) to flow through them - Current (1)

(Solid) lonic + Covalent bonds have electrons in a fixed position (1) due to sharing/donaling. And therefore do not allow current to flow through them (1)

5. Name the type of bond involved in the following compounds:

(4 marks)

NH ₃	Covalent				(1)
Fe	Metalli C			19 "	(1)
Bal ₂	Ionic		The fail of	e generalis est	(1)
O ₂	Covalent	remunication			(1)

6. Write the symbols and the charge of the following polyatomic ions in the table below: (4 marks)

Polyatomic Ion Name	Symbols (including valency)	<u> </u>
Hydroxide	OH-	(1)
Carbonate	(O ₃ ² -	(1)
Ammonium	NH4+	(1)
Ethanoate	CH3 (00	(1)

End of Test