Nom :					HYS 9	
Te	est 3	lons e	t isotopes		Le	Châtelard
Exer	cise 1 (10 p	ooints) C	omplete the sentence	es:		
a) T	Two atoms of the same element allways have the same amount of .					
b) T	Γhe charge	e of an elem	nent can change if we	e remove or add som		
c) A	An atom whose charge is not zero is called an .					
d) 7	wo different isotopes of the same element allways have the same amount of					
			but a diff	erent amount of		
e) 7) The atomic mass of an element represents its amount of . Howev					
r	number i	may have	some decimals,	because it is of	otained by calcula	ated the weighted
			of the a	atomic		of all the different
	of this element which can be found on					
Exer	cice 2 (4 po	oints) W	e find on earth 99%	of ${}^{12}_{6}\text{C}$ and 1% of ${}^{13}_{6}\text{C}$		
a)	How many isotopes does carbon have?					
b)	What is th	e most abı	undant isotope of car	bon on earth?		
c)	c) Calculate the atomic mass of Carbon by taking the weighted					
	average o	f the atomi	c masses of its main r	natural isotopes.		
Exer	cice 2 (16	ooints) C	omplète le tableau :			
			protons	électrons	nucléons	neutrons
a)	5-	⁴ ₆ Fe				
b)	5	⁶ Fe				
c)	56 ₂	Fe ²⁺				

 $_{26}^{56} \mathrm{Fe^{3+}}$

d)