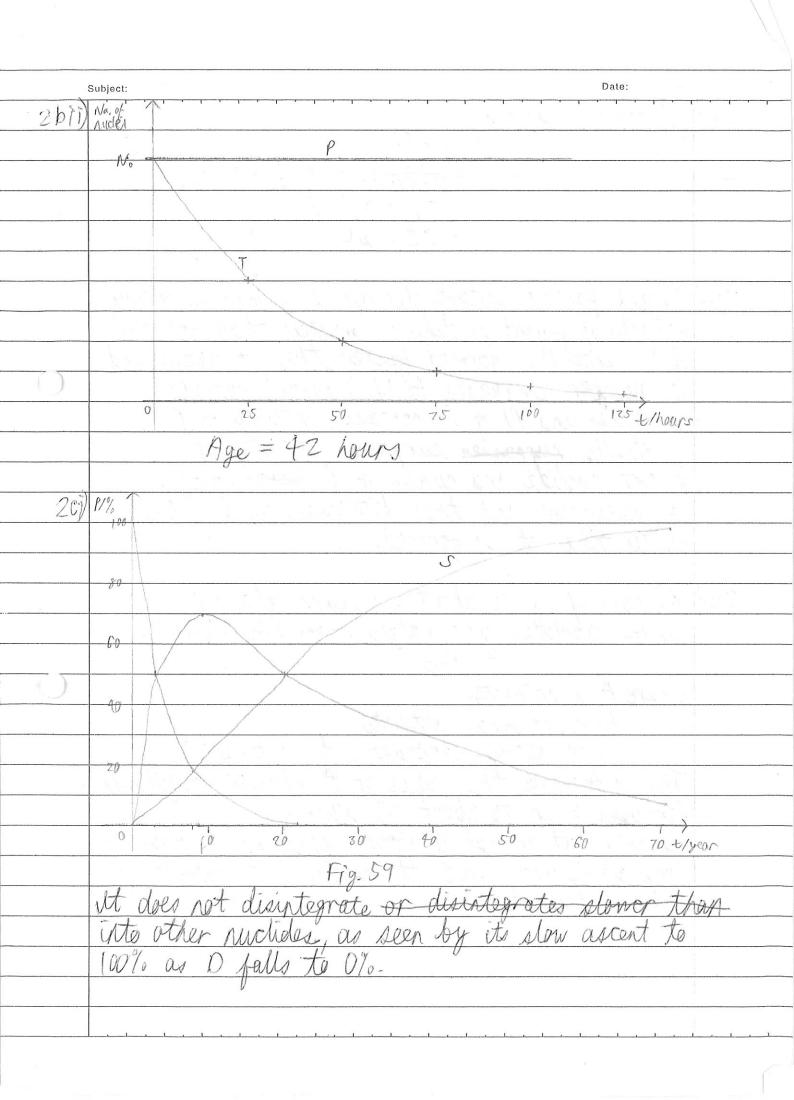
	Tan 3hi Long 0356H Nucteur Physics Ass
	Date: \$1/3/04
(ai)	Proton number, nucleon number, mess-energy and linear momentum.
	linear momeratum.
	The state of the s
(aii)	Lis an electron. "C
	$\frac{1}{4}$ Nuclean No. of $\frac{1}{4} = 2+2$
	Proton Ne of y = 1+1-1
	Let - Missiff - the wife - the state -
() /aji	For nuclear fusion to take place, the hydrogen atoms
	must be trought close enough in order for them
	to fuse. This means that energy is required to
	to fuse. This means that energy is required to overcome the very high Coulombic repulsion.
	Therefore a very high temperature is required for
	Therefore a very high temperature is required for the hydrogen stems to acquire enough energy to
	accomptish this
	×01 / 1 - +1
laiv	The binding energy of a nucleus is the amount of work needed to take all its constituent nucleons
	of work needed to take all its constituent nucleons
	apart so that they are separated at an infinite distance from one another
	distance from one dyother
In A	1 NOCIA 1-2 1 1-00000 102-0 01174 102 (DE
/UV)	$\frac{1-00814uc^2+1-00898uc^2=2-01474uc^2+B-E}{B-E=1-00814uc^2+1-00898uc^2-2-01474uc^2}$
	$= 2-38\times10^{-3} \text{ u C}^{2}$
	= 2-23MeV\$
	B.F. Der Mirlorg 2-223
	B-E per nucleon = 2-223 = 1-11 MeV (3s-t)
	103-17

	the company and the third to the offer of
	Subject: Date:
(avi)	B. E per nucleon of 4 He = 4.564 ×10-10×10-11 + 1.50×1-6×10-11
	=713-1 MeV (35-F)
	the nuclides are for more stable than
	the nuclides are far more stable than their binding energy per nucleon is for
	greater.
161)	- No of 19 C atoms - 21072 1010 X
	Moles of carbon = No. of atomy = 6.0 x 1023
	$=6-0 \times (0^{13})$
4	I as a colored marrie fall is a street when some area
(iid)	$A = \lambda N$ $= \frac{10^{2}}{5600 \times 365 \times 24 \times 3600} \times 6 - 0 \times 10^{13}$
	= 5600×365×24×3600 × 6-0 × 1013
	$= 236 B_g (3s-t)$
	and the appearance of the enterpreparation of the contract of
(bilit)	$A = A_0 e^{-\lambda t}$
	$30 = 235 - 5e^{-\lambda t}$
	e-xt = 0-1274
17	#入t=2-060
	t = 2-060
	= 5.25 × 10 ¹¹ s (3s.t)
	= 5.25 × (0" s (3 s. t)
	= 16600 yeary (3s.t)
- 1	
20)	
	factors
7.	
Zbi)	It emits an electron from its nucleus
	The same of the sa



	Subject: Date:	
	1-time 9 years	
2019	$A = \lambda N$	
80	= 102 15×30-424×3EHD X 68 × 1-2×1015	
	= 1-196×10°Bg	
	= 32-3 µCi (3s-f)	
		,
Zail	As the parent isotope decays, D is formed Initially,	
	activity of parent nuclide is greater than activity	
	of P. hence D is formed paster than it decays and	
	its number increases An N of parent nuclide	
	decreases and N of Dincreases, activity of D	
	eventually supposses surposses activity of	
	parent rudide and rumbor of D decre reaches	
	a maximum and then decreases as D decays	,
	faster than it is formed.	
2000	At a select of alout of	
29y	At ages of up to about 30 years, the age	2
	can be calculated accurately from the formula.	
	$A = A_0 e^{-\lambda t}$	
	Aois original activity	
	As is original activity I is decay constant; It is time (3)	
	This is because the value of A charges rapidly at	
	for ages of up to about 30 years.	
	Planever, at an age of about 100 years, A charges	
	very slawly and hence the value of it calculated	
D. ÷	is hear excurate.	- 12
		22 2 2