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قسم الفيزياء والفلك القصل الدراسي الأول لعام 1440/1439 هـ

Quiz 3_PHYS 111

الرقم الجامعي:		الرق	اسم الطالبة:	
1. An atom has a m A) 23	ass number of 23 a B) 11	nd an atomic numbe	er of 11. The numbers of protons is:	
2- The half life of a	specific element wa	as calculated to be 5	200 years. The decay constant is	
A) 1.33x10 ⁻⁴ yr ⁻¹	B) 5.6 x10 ⁻⁴ yr ⁻¹	C) 6000 x10 ⁻⁴ yr ⁻¹	D) 43 x10 ⁻⁴ yr ⁻¹	
3- The energy requ	ired to excite an el	ectron from n = 2 to	n = 4 in a Bohr hydrogen atom is:	
) 4.08×10^{-19} J es of nuclear radiation is:	
5- Isotopes are ato	oms of the same el	ement that have diff	ferent:	
A) mass numbers	B) atomic numbers	C) electron numbers	D) proton number	
6- The decay of $\frac{14}{6}$	C into $\frac{14}{7}$ N is:			
Α) α	B) β^{-1}	C) β^{+1}	D) γ	
7- the most typical	fuel used in a fissi	on reactor is:		
A) ¹⁴ ₆ C	B) $^{235}_{92}U$	C) ⁴ ₂ He	D) 1H	
8- The total mass of material after the e		es fission reaction is	sthe total mass of the	
A) less than	B) same as	C) halved	D) larger	
			0 ⁻⁵ s ⁻¹ .The time interval 0% of its original value is:	
A) 12000 s	B) 40813 s	C) 9800 s)) 60400 s	
10- When a radio	pactive nucleus em	its a gamma ray the	number of	

A) protons increases by one while the number of neutrons decreases by one. B) protons decrease by one while the number of neutrons increases by one.

C) protons and neutrons each decrease by two.

D) protons and neutrons remain unchanged.