FO	R GOD AND COUNTRY		_		
	Class – X	Subject -	Physical Science		Date - 23.11.20
	Chapter – Atomic Nucleus				
Choose	e the correct option for the following	lowing questions.			1 × 15 = 15
1.	The strongest force in the un a. Gravitational force	iverse is b. Magnetic fo	prce c. Cou	alomb force	d. Nuclear force
2.	The weakest force in the un a. Gravitational force	iverse is b. Magnetic fo	orce c. Cou	lomb force	d. Nuclear force
3.	Nuclear force is a a. Short range force	b. long range f	orce c. charg	e dependent force	d. none of these
4.	The speed of β particle in va a. Equal to c	b. $\frac{c}{10}$	÷		d. none of these
5.	 When a β particle is emitted a. Decreased by 1 b. Increased by 1 c. Remains unchanged d. Decreased by 2 	then the mass num	ber is		
6.	The nuclear attractive force a a. Proton and proton	acts between b. proton and n	eutron	c. neutron and neu	utron <mark>d. all of these</mark>
7.	Emission of which ray will r a. $\alpha - ray$	hot create a new ele b. $\beta - ray$		c.γ – ray	d. all of these
8.	Which ray has highest penet a. $\alpha - ray$ b. μ	rating power 3 – ray	<mark>c. γ – ray</mark>	d. all three	e has equal penetrating power
9.	Which ray has highest wave a. $\alpha - ray$ b. μ	•	c. γ – <i>ray</i>	d. all three	e has equal wavelength
10.	What will be atomic number one β and one γ particle from a. 89 b. 9	om U_{92}^{238} ?	t nucleus, if it i c.91	d. 92	radioactive decay of one α ,
11.	a. 89 b. 9 What will be the mass numb a. <mark>236</mark> b. 2	per of the product r			

12. The ray which is attracted by the negative electric field is

	a.	<mark>α – ray</mark>	b. $\beta - ray$		c. $\gamma - ray$	d. none of these				
13. The ray which has highest ionization potential is a. $\frac{\alpha - ray}{\alpha - ray}$ b. $\beta - ray$ c. $\gamma - ray$ d. all three has equal ionization potential										
14. Natural radioactivity was first discovered by										
a.	He	enry Becquerel	b. Piere Curie		c. Madame curie	d. Rontgen				
15. If U_{92}^{238} emits one β particle, then what will be the number of neutrons present in the nucleus of the product element?										

a. 93 b. 146 <mark>c. 145</mark> d. 147

Name of the teacher - Soumitra Maity