Atomic and Nuclear Physics

Sr	Questions	Answers Choice
1	isotopes are atom of same element with different.	A. Atomic mass B. Atomic number C. Number of proton D. Number of electron
2	The number of neutrons in the nucleus of tritium is:	A. 1 B. 2 C. 3 D. 4
3	What happen to the atomic number of an element which emits one alpha particle?	A. Increase by 1 B. Stays the same C. Decrease by 2 D. Decrease by 1
4	$100x10^3$ A= :	A. 10⁻³ A<o:p></o:p> B. 10⁻² A<o:p></o:p> C. 10 A<o:p></o:p> D. 10⁻¹A<o:p></o:p>
5	According to ohm's law V= :	A. I²R<o:p></o:p> B. IR²<o:p></o:p> C. IR<o:p></o:p> D. I/R<o:p></o:p>
6	When 1 tonne of coal is burnt then amount of energy is released .	A. 36 x 10⁸ J B. 36 x 10⁹J C. 36 J D. 36 x 10¹⁰J
7	diamond des not conduct electricity, because it has no:	A. free electrons<o:p></o:p> B. free protons<o:p></o:p> C. free neutrons<o:p></o:p> D. free positive charge<o:p></o:p>
8	When resistances are connected in parallel, the current passing through them is:	A. Same<o:p></o:p> B. Zero<o:p></o:p> C. Different<o:p></o:p> D. Infinite<o:p></o:p>
9	For observing how fast plants are absorbing phosphate fertilizer we use.	A. I.131 B. Ph -32 C. Co-60 D. Ar-40
10	The A.C used in Pakistan has frequency:	A. 60 Hz<o:p></o:p> B. 30 Hz<o:p></o:p> C. 50 Hz<o:p></o:p> D. 130 Hz<o:p></o:p>
11	The symbol of alpha particles is:	A. 4AHe B. 42He C. 0-1B

		D. 00Y
12	The half life of radium 226 is	A. 1600 year B. 1610 years C. 1620 years D. 1630 years
13	A digital multimeter is used to measure:	A. Current<o:p></o:p> B. Resistance<o:p></o:p> C. Potential difference<o:p></o:p> D. All of above<o:p></o:p>
14	When 1 kg of Uranium -235 is fused then energy released is	A. 67 x 10¹⁰ J B. 67 x 10⁷J C. 67 J D. 7 J
15	What is the power rating of a lamp connector to a 12 V source when it carries 2.5 A:	A. 4.8W<o:p></o:p> B. 14.5W<o:p></o:p> C. 30W<o:p></o:p> D. 60W<o:p></o:p>
16	The power of small fan is:	A. 40 W<o:p></o:p> B. 50 W<o:p></o:p> C. 60 W<o:p></o:p> D. 80 W<o:p></o:p>
17	When a uranium (92 protons) ejects a beta particle, how many protons are left in the remaining nucleus?	A. 92 protons B. 91 protons C. 93 protons D. 89 protons
18	A thermistor is a dependent resistors:	A. Heat<o:p></o:p> B. temperature<o:p></o:p> C. energy<o:p></o:p> D. mass<o:p></o:p>
19	When resistances are connected in series the current passing through them is:	A. Different<o:p></o:p> B. Zero<o:p></o:p> C. The same<o:p></o:p> D. None of these<o:p></o:p>
20	Which among the following radiation has more penetrating power?	A. A beta pareticle B. A gamma particle C. An alpha particle D. None of these