Atomic and Nuclear Physics

Sr	Questions	Answers Choice
1	Which element is used to locate the ulcer in brain?	A. Iodine-131 B. Phosphorus-32 C. Carbon-14 D. Potassium-40
2	Which element is used for the monitoring of thyroid glands?	A. Iodine- 131 B. Phosphorus-32 C. Carbon-14 D. Potassium-40
3	by connecting suitable high resistance in series with galvanometer it will convert into:	A. voltmeter<o:p></o:p> B. galvanometer<o:p></o:p> C. ammeter<o:p></o:p> D. multimeter<o:p></o:p>
4	Which instrument is used to detect current:	A. Galvanometer<o:p></o:p> B. Voltmeter<o:p></o:p> C. Ammeter<o:p></o:p> D. Electroscope<o:p></o:p>
5	The process of breaking a heavy nucleus after the bombardment of neutrons into two small nuclei is called:	A. Nuclear fission reaction B. Nuclear fusion reaction C. Nuclear Radiation D. Nuclear chain reaction
6	Radioactive isotopes present in atmosphere is	A. Cobalt -60 B. Ph-32 C. Carbon -14 D. Carbon -20
7	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>
8	earth wire is connected with those appliances whose casing is made of:	A. metals<o:p></o:p> B. wood<o:p></o:p> C. glass<o:p></o:p> D. plastic<o:p></o:p>
9	The half life of radium - 226 is 1620 years. If N is its total amount then after the four half lives, its left amount will be:	A. 1/2 N B. 1/4 N C. 1/8 N D. 1/16 N
10	The combined resistance of two identical resistors, connected in series is 8Ω. Their combined resistance in a parallel arrangement will be:	A. 2 Ω<o:p></o:p> B. 4 Ω<o:p></o:p> C. 8 Ω<o:p></o:p> D. 12 Ω<o:p></o:p>
		A. 20,000 ohm<o:p></o:p>

11	Human skin, in dry conditions, has a resistance of:	B. 100,000 ohm<o:p></o:p> C. 30,000 ohm<o:p></o:p> D. 2000 ohm<o:p></o:p>
12	for which of following ampere second could be the unit:	A. energy<o:p></o:p> B. current<o:p></o:p> C. charge<o:p></o:p> D. power<o:p></o:p>
13	Nuclear fission was first observed in	A. 1936 B. 1937 C. 1938 D. 1939
14	When a Uranium (92 protons)ejects a beta particle, how many protons are left in the remaining nucleus?	A. 89 Protons B. 90 Protons C. 91 Protons D. 93 Protons
15	the resistance of an ammeter should be:	A. high<o:p></o:p> B. very high<o:p></o:p> C. low<o:p></o:p> D. constant<o:p></o:p>
16	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>
17	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>
18	The value or current I passing through a conductor is inversely proportional to:	A. Temperature<o:p></o:p> B. Potential difference<o:p></o:p> C. e.m.f.<o:p></o:p> D. resistance<o:p></o:p>
19	If we double both the current and the voltage in a circuit while keeping its resistance constant, the power:	A. Remains unchanged<o:p></o:p> B. Halves<o:p></o:p> C. Doubles<o:p></o:p> D. Four time<o:p></o:p>
20	$100x10^3$ 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>