

Atomic and Nuclear Physics

Sr	Questions	Answers Choice
1	The value of current I passing through a conductor is inversely proportional to:	<p>A. $\frac{1}{\text{Temperature}}$</p> <p>B. $\frac{1}{\text{Potential difference}}$</p> <p>C. $e.m.f.$</p> <p>D. resistance</p>
2	Radiation was found in:	<p>A. 1896</p> <p>B. 1895</p> <p>C. 1897</p> <p>D. 1898</p>
3	by connecting suitable high resistance in series with galvanometer it will convert into:	<p>A. voltmeter</p> <p>B. galvanometer</p> <p>C. ammeter</p> <p>D. multimeter</p>
4	If 2 joules of energy is required to transfer one coulomb of charge from one point to another, the potential difference between these points will be:	<p>A. 1V</p> <p>B. 2V</p> <p>C. 4V</p> <p>D. 6V</p>
5	Radioactive isotopes present in atmosphere is	<p>A. Cobalt -60</p> <p>B. Ph-32</p> <p>C. Carbon -14</p> <p>D. Carbon -20</p>
6	When a heavy nucleus splits into, lighter nuclei, the process would .	<p>A. Release nuclear energy</p> <p>B. Absorb nuclear energy</p> <p>C. Release chemical energy</p> <p>D. Absorb chemical energy</p>
7	Joule's law is $W=$	<p>A. $\frac{IR}{t}$</p> <p>B. IRt^2</p> <p>C. IR^2t</p> <p>D. I^2Rt</p>
8	The commercial unit of electrical energy is:	<p>A. Joule</p> <p>B. Watt</p> <p>C. Kilowatt hour</p> <p>D. Electron volt</p>
9	Safe limit of radiations exposure in one year.	<p>A. 4 rem</p> <p>B. 5 rem</p> <p>C. 3 rem</p> <p>D. 6 rem</p>
10	When a Uranium (92 protons) ejects a beta particle, how many protons are left in the remaining nucleus?	<p>A. 89 Protons</p> <p>B. 90 Protons</p> <p>C. 91 Protons</p> <p>D. 93 Protons</p>

11	the resistance of an ammeter should be:	<p>A. high</p> <p>B. very high</p> <p>C. low</p> <p>D. constant</p>
12	When resistances are connected in series the current passing through them is:	<p>A. Different</p> <p>B. Zero</p> <p>C. The same</p> <p>D. None of these</p>
13	For observing how fast plants are absorbing phosphate fertilizer we use.	<p>A. I.131</p> <p>B. Ph -32</p> <p>C. Co-60</p> <p>D. Ar-40</p>
14	The half of carbon 14 is	<p>A. 5720 years</p> <p>B. 5730 years</p> <p>C. 5740 years</p> <p>D. 5750 years</p>
15	The symbol of alpha particles is:	<p>A. 4AHe</p> <p>B. 42He</p> <p>C. 0-1B</p> <p>D. 00Y</p>
16	What type of graph is in between V and I, if metal obeys ohm's law:	<p>A. Curved</p> <p>B. Parabola</p> <p>C. Straight line</p> <p>D. None of these</p>
17	The combined resistance of two identical resistors, connected in series is 8Ω. Their combined resistance in a parallel arrangement will be:	<p>A. 2 Ω</p> <p>B. 4 Ω</p> <p>C. 8 Ω</p> <p>D. 12 Ω</p>
18	$V^2/R=$:	<p>A. Power</p> <p>B. Energy</p> <p>C. Voltage</p> <p>D. Resistance</p>
19	the resistance of conductor is inversely to:	<p>A. temperature</p> <p>B. length</p> <p>C. area of cross section</p> <p>D. pressure</p>
20	Isotopes are atoms of same element with different :	<p>A. Atomic mass</p> <p>B. Atomic Number</p> <p>C. Number of proton</p> <p>D. Number of Neutron</p>