

Atomic and Nuclear Physics

Sr	Questions	Answers Choice
1	The A.C used in Pakistan has frequency:	<p>A. 60 Hz</p> <p>B. 30 Hz</p> <p>C. 50 Hz</p> <p>D. 130 Hz</p>
2	The half life of plutonium $^{236}\text{Pu}_{94}$ is:	<p>A. 2.00 years</p> <p>B. 2.35 years</p> <p>C. 2.79 years</p> <p>D. 2.85 years</p>
3	The property of substance, which opposes the flow of current through it is called:	<p>A. Resistance</p> <p>B. Reactance</p> <p>C. Resistivity</p> <p>D. None</p>
4	$V^2/R=$:	<p>A. Power</p> <p>B. Energy</p> <p>C. Voltage</p> <p>D. Resistance</p>
5	The Half life of a certain isotopes is 1 day. What is the quantity of isotopes after 2 days?	<p>A. One half</p> <p>B. One quarter</p> <p>C. One eight</p> <p>D. None of these</p>
6	What happen to the atomic number of an element which emits one alpha particle and a beta particles.	<p>A. Increases by 1</p> <p>B. Stay the same</p> <p>C. Decrease by 2</p> <p>D. Decrease by 1</p>
7	Release of the energy by the sun is due to:	<p>A. Nuclear Fussion</p> <p>B. Nuclear Fission</p> <p>C. Burning of gases</p> <p>D. Chemical reaction</p>
8	Radiation was found in:	<p>A. 1896</p> <p>B. 1895</p> <p>C. 1897</p> <p>D. 1898</p>
9	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>
10	Radiations present in atmosphere due to the presence of different radioactive elements are:	<p>A. Cosmic radiations</p> <p>B. Background radiations</p> <p>C. secondary radiations</p> <p>D. Electromagnetic radiations</p>
11	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>

12	$100 \times 10^3 \text{ A} = :$	<p>B. $10 \times 10^2 \text{ A}$</p> <p>A. 10 A</p> <p>C. 10 A</p> <p>D. $10 \times 10^1 \text{ A}$</p>
13	Watt is equal to:	<p>A. Coulomb per second</p> <p>B. Newton per second</p> <p>C. Volt per second</p> <p>D. Joule per second</p>
14	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>
15	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>
16	the range of galvanometer to measure current is:	<p>A. few amperes</p> <p>B. few micro amperes</p> <p>C. few milli amperes</p> <p>D. mega amperes</p>
17	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>
18	The half life of argon nuclide Ar-40 is:	<p>A. 2×10^8 years</p> <p>B. 2.2×10^8 years</p> <p>C. 2.4×10^8 years</p> <p>D. 2.8×10^8 years</p>
19	earth wire is connected with those appliances whose casing is made of:	<p>A. metals</p> <p>B. wood</p> <p>C. glass</p> <p>D. plastic</p>
20	If we double both the current and the voltage in a circuit while keeping its resistance constant, the power:	<p>A. Remains unchanged</p> <p>B. Halves</p> <p>C. Doubles</p> <p>D. Four time</p>