

Atomic and Nuclear Physics

Sr	Questions	Answers Choice
1	For observing how fast plants are absorbing phosphate fertilizer we use.	A. I.131 B. Ph -32 C. Co-60 D. Ar-40
2	The number of neutrons in the nucleus of tritium is:	A. 1 B. 2 C. 3 D. 4
3	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
4	an additional wire used along with live and neutral wire is:	A. cable wire B. earth wire C. grip wire D. hot wire
5	The Half life of a certain isotopes is 1 day. What is the quantity of isotopes after 2 days?	A. One half B. One quarter C. One eight D. None of these
6	The half life of argon nuclide Ar-40 is:	A. 2×10^8 years B. 2.2×10^8 years C. 2.4×10^8 years D. 2.8×10^8 years
7	When a heavy nucleus splits into, lighter nuclei, the process would .	A. Release nuclear energy B. Absorb nuclear energy C. Release chemical energy D. Absorb chemical energy
8	the power of washing machine is:	A. 700 W B. 750 W C. 650 W D. 800 W
9	with the increase in temperature the resistance of pure metals:	A. increases B. decreases C. remains same D. none of these
10	The half life of plutonium $^{236}\text{Pu}_{94}$ is:	A. 2.00 years B. 2.35 years C. 2.79 years D. 2.85 years
11	What is the amount of current passing through an electric heater, if it takes 1800C charge pass through it in 3 minute:	A. 16 A B. 10 A C. 100 A D. 0.1 A
12	Which element is used to locate the ulcer in brain?	A. Iodine-131 B. Phosphorus-32

		C. Carbon-14 D. Potassium-40
13	Radiation was found in:	A. 1896 B. 1895 C. 1897 D. 1898
14	Total energy supplied in driving one coulomb of charge around a complete circuit is called:	A. $\text{Potential difference}$ B. Potential energy C. $\text{Electromotive force}$ D. Potential energy
15	When 1 tonne of coal is burnt then amount of energy is released .	A. $36 \times 10^8 \text{ J}$ B. $36 \times 10^9 \text{ J}$ C. 36 J D. $36 \times 10^{10} \text{ J}$
16	Radioactive isotopes present in atmosphere is	A. Cobalt -60 B. Ph-32 C. Carbon -14 D. Carbon -20
17	The half of carbon 14 is	A. 5720 years B. 5730 years C. 5740 years D. 5750 years
18	What type of graph is in between V and I, if metal obeys ohm's law:	A. Curved B. Parabola C. Straight line D. None of these
19	The combined resistance of two identical resistors, connected in series is 8Ω . Their combined resistance in a parallel arrangement will be:	A. 2Ω B. 4Ω C. 8Ω D. 12Ω
20	What happen to the atomic number of an element which emits one alpha particle and a beta particles.	A. Increases by 1 B. Stay the same C. Decrease by 2 D. Decrease by 1