

## Atomic Structure

Sr	Questions	Answers Choice
1	Which particle is present in different number in the isotopes.	A. Proton B. Electron C. Neutron D. Both neutron and electron
2	Atomic number is represented by	A. P B. A C. At D. Z
3	An element has 5 electrons in M shell. Its atomic number is.	A. 5 B. 10 C. 15 D. 20
4	Quantum means.	A. Variable energy B. Fixed energy C. High energy D. Minimum energy
5	How is radio carbon dating useful for archeologists.	A. It helps determine whether the matter is radioactive or not B. It helps determine the age of organic matter C. It helps determine the composition of matter D. It helps determine the usefulness of matter
6	Chlorine has two isotopes, both of which have	A. Same mass Number B. Same number of electrons C. Same number of neutrons D. Different number of protons
7	$^{13}\text{C}$ and $^{14}\text{C}$ are both present in nature.	A. 0.1 % B. 1.1 % C. 0.9 % D. 1.5 %
8	Which subshells are present in L - shell?	A. S and P B. Only s -sub shell C. Only p - sub shell D. Sub shell
9	The nucleus of an atom is composed of	A. Electrons B. Electrons and protons C. Protons and neutrons D. Electrons and neutrons
10	Protons are attracted toward plate.	A. Positive B. Negative C. Both a and b D. None of these
11	Number of electrons that can be accommodated in f - subshell	A. 6 B. 10 C. 2 D. 14
12	How do electrons keep themselves away from the oppositely charged nucleus.	A. A magnetic field around the nucleus keeps them away B. By keeping themselves stationary C. By revolving around the nucleus D. Due to their wave like nature
13	In which isotope of oxygen there are the equal number of protons, electrons and neutrons.	A. $^{16}\text{O}$ B. $^{17}\text{O}$ C. $^{18}\text{O}$ D. None of these
14	What information was obtained from discharge tube experiments?	A. Electrons and protons were discovered B. Structure of atom was discovered C. Neutrons and protons were discovered

		discovered D. Presence of nucleus in an atom was discovered
15	What will be the relative atomic mass of nitrogen given the abundance of its two isotopes, $^{14}\text{N}$ and $^{15}\text{N}$ are 99.64 and 0.35	A. 14.0210 B. 14.2100 C. 14.0021 D. 14.1200
16	How many electrons can be accommodated in S subshell?	A. 2 B. 6 C. 14 D. 10
17	A sub shell that can accommodate 6 electrons is	A. b B. s C. f D. p
18	Which isotope is used for diagnosis of goiter?	A. Iodine-131 B. Cobalt -60 C. P-32 D. Sr-90
19	Number of neutrons in $^{27}\text{M}_{13}$ are	A. 13 B. 14 C. 27 D. 15
20	According to Rutherford's atomic theory, atom should produce.	A. Line spectrum B. Continuous spectrum C. Both a and b D. None of these