

## Atomic Structure

Sr	Questions	Answers Choice
1	An element has 5 electrons in M shell. Its atomic number is.	A. 5 B. 10 C. 15 D. 20
2	Rutherford used a gold foil in his experiment, which had a thickness of	A. 0,0002 cm B. 0,0001 cm C. 0.001 cm D. 0.00004cm
3	According to Rutherford's atomic theory, atom should produce.	A. Line spectrum B. Continuous spectrum C. Both a and b D. None of these
4	Number of neutrons in $^{27}_{13}\text{M}$ are	A. 13 B. 14 C. 27 D. 15
5	N-shell contains number of subshells.	A. 1 B. 3 C. 4 D. 2
6	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
7	A subshell that can accommodate 6 electrons is	A. b B. s C. f D. p
8	How many electrons can be accommodated in S subshell?	A. 2 B. 6 C. 14 D. 10
9	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
10	How many electrons can be accommodated at the most in the third shell of the elements.	A. 8 B. 10 C. 18 D. 32
11	The nucleus of an atom is composed of	A. Electrons B. Electrons and protons C. Protons and neutrons D. Electrons and neutrons
12	d- subshell can accommodate maximum electrons.	A. 2 B. 6 C. 10 D. 14
13	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 D. Presence of nucleus in an atom was discovered
14	Which particle is present in different number in the isotopes.	A. Proton B. Electron C. Neutron D. Both neutron and electron
		A. A magnetic field around the nucleus

15	How do electrons keep themselves away from the oppositely charged nucleus.	keeps them away B. By keeping themselves stationary C. By revolving around the nucleus D. Due to their wave like nature
16	The percentage of $^{238}\text{U}_{92}$ found in nature.	A. 97% B. 0.72% C. 98% D. 1.5%
17	Protons are deflected toward plate.	A. Positive B. Negative C. Both a and b D. None of these
18	Number of electrons that can be accommodated in f - subshell	A. 6 B. 10 C. 2 D. 14
19	Which isotope is used in nuclear reactors.	A. U-234 B. U-235 C. U-238 D. All of these
20	Who performed the first experiment to split the atom	A. Bohr B. Newton C. Rutherford D. Soddy