

Atomic Structure

Sr	Questions	Answers Choice
1	²³⁸ U ₉₂ has number of neutrons.	A. 92 B. 146 C. 238 D. 330
2	Which of the following statement is not correct about isotopes.	A. they have same atomic number B. They have same number of protons C. They have same physical properties D. They have same chemical propeties
3	Number of neurtons in ²⁷ M ₁₃ are	A. 13 B. 14 C. 27 D. 15
4	How doe electrons keep themselves away from the oppositely charged nucleus.	A. A agnetic 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
5	According to Rutherford's atomic theory, atom should produce.	A. Line spectrum B. Continuous spectrum C. Both a and b D. None of these
6	Atomic number is represented by	A. P B. A C. At D. Z
7	Number of isotopes of hydrogen is	A. 2 B. 5 C. 4 D. 3
8	Mass Number is repreented by	A. Z B. S C. A D. M
9	In which isotope of oxygen there are the equal numbr of protons electons and neutorns.	A. O ¹⁶ B. ¹⁷ O C. ¹⁸ O D. None of these
10	How many subshells are there in M shell?	A. 2 B. 4 C. 3 D. 5
11	Carbon -14 is used for the	A. Growth of bones B. Diagonosis of goiter C. Age determination of old objects D. All of these
12	The percentage of 238 U $_{92}$ found in nature.	A. 97% B. 0.72% C. 98% D. 1.5%
13	Which particle is present in differente number in the isotopes.	A. Proton B. Electron C. Neutron D. Both neutron and electron
14	Which Isotopes is commonly used to irradiate cancer cells.	A. Cobalt -60 B. lodine-23 C. Carbon -14 D. lodine-131

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15	Number of electrons that an be accomodated in f - subshell	A. 6 B. 10 C. 2 D. 14
16	How many electrons can be accommodated at the most in the third shell of the elements.	A. 8 B. 10 C. 18 D. 32
17	Whcih subshells are present in L - shell?	A. S and P B. Only s -sub shell C. Only p - sub shell D. Sub shell
18	Number of protons in the nucleus of an atom is called.	A. Atomic number B. Mass Number C. Mass Unit D. Electron Number
19	Why has isotopes not been shown int he periodic table.	A. Isotopes do not show periodic behavior B. Periodic tble cannot accomodate a large number of isotopes of different elements C. All the isotops have same atomic number so there is no need to give them separate places D. Someof the isotopes are unstble and they give rise to different elements.
20	Chlorine has two isotopes, both of which have	A. Same mass Number B. Same number of electrons C. Same number of neurtons D. Different number of protons