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## **Introduction, Fundamental Particles**

1.	The hydride ion is	(AFMC- 95)					
	1) H+	2) He+	3) He	4) Be			
2.	Charge of the species with 17 protons, 18 neutrons and 18 electrons is						
				(AIIMS 96)			
	1) + 1	2) - 1	3) - 2	4) None			
3.	The number of electrons in is (AFMC 99)						
	1) 18	2) 19	3) 17	4) 20			
4.	Many elements ha	ve non-integral mass	ses. This is because	(IIT 93)			
	1) Their isotopes have different atomic number.						
	2) Their isotopes have different masses.						
	3) Their isotopes have non-integral masses.						
	4) Their constituents, protons, electrons and neutrons combine to give fractional masses.						
5.	A neutral atom, with atomic number greater than one consists of (AFMC 96)						
	1) Protons only		2) Protons and	2) Protons and neutrons			
	3) Neutrons and ele	ectrons	4) Neutrons, ele	4) Neutrons, electrons and protons			
6.	The atomic weig	23 and its atomic	number is 11. The				
	number of protons, electrons and neutrons respectively present in the atom of						
•	the element are			(E-86)			
	1) 11, 11, 12	2) 12, 12, 11	3) 11, 12, 11	4) 12, 11, 12			
7.	Difference in 17C	$^{cl}$ and $^{17}$ Cl $^{37}$ is of		(AFMC 2000)			
	1) No. of protons 2) No. of neutrons 3) No. of electrons 4) Atomic number						

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8.	Substances having s	ss are (AFMC92)					
	1) Isotopes	2) Isobars	3) Isotones	4) Allotropes			
9.	Rutherford scattering experiment is related to the size of (IIT 83)						
	1) Atom	2) Electron	3) Neutron	4) Nucleus			
10.	Rutherford's exper	iment, which establisl	ned the nuclear mo	odel of the atom,			
	used a beam of			(2002)			
	1) $\beta$ - particles, which impinged on a metal foil and got absorbed						
	2) $\gamma$ -rays, which impinged on a metal foil and ejected electrons						
	3) Helium atoms, which impinged on a metal foil and got scattered						
	4) Helium nuclei, which impinged on a metal foil and got scattered						
		KEY	2 Corre				
1)3	2)3 3)4 4)2	KS	7) 2 8) 1 9)	1 10) 4			
	100						