Dea	<b>ATOMIC STRUCTUR</b> ar student following is an Easy level $[\bigcirc 0 0]$ isfactory performance. Questions 1- 9 (+3)	test paper.		in 10 Minutes would be a	
2.1	<ul> <li>When alpha particles are sent through thin metal foil, most of them go straig through the foil because :</li> <li>(A) Alpha particles are much heavier the electron</li> <li>(B) Alpha particles are positively charged</li> <li>(C) Alpha particles move with high velocied</li> <li>(D) Most part of the atom is empty</li> </ul>	ght nan I Q.6	order of (A) 10 <sup>-12</sup> m (C) 10 <sup>-15</sup> m	tomic nucleus is of the (B) 10 <sup>-8</sup> m (D) 10 <sup>-10</sup> m lowing are isoelectronic	
Q.2	<ul> <li>Which is correct statement about proto</li> <li>(A) Proton is nucleus of deuterium</li> <li>(B) Proton is α - particle</li> </ul>	n? Q.7	(D) Na <sup>+</sup> and K <sup>+</sup> The aromic weigl	nt of an element is 23 and	
	(C) Proton is ionized hydrogen molecule (D) Proton is ionized hydrogen		atomic number is 11. The number of protons, electrons and neutrons respectively present in the atom of the element are :		
Q.3	The electron was shown experimenta to have wave properties by :		(A) 11, 11, 12 (C) 11, 12, 11	(B) 12, 12, 11 (D) 12, 11, 12	
	<ul><li>(A) De broglie</li><li>(B) Davisson and Germer</li><li>(C) N. Bohr</li><li>(D) Schrodinger</li></ul>	0.8	Which of the following and the following of the following (A) 3Li (C) 7N	ollowing atoms has the adius ? (B) 5 <sup>B</sup> (D) 8 <sup>F</sup>	
Q.4	The heaviest particle is :	An isotone of $^{77}_{33}$ Ge is			
	(A) Meson (B) Neutron		(A) <sup>77</sup> <sub>32</sub> Ge	(B) <sup>77</sup> <sub>33</sub> As	
	(C) Electron (D) Proton		(C) <sup>77</sup> <sub>34</sub> Se	(D) <sup>76</sup> <sub>34</sub> Se	

Name :						Roll No. :								
	Α	В	С	D		Α	В	С	D		Α	В	С	D
1	0	0	0	0	4	0	0	0	0	7	0	0	0	0
2	0	0							0			0	0	0
3	0								0			0	0	0

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ABLES CLASS TEST 1/6

ATOMIC STRUCTURE

**CHEMISTRY (FOUNDATION)** 

### **ANSWER KEY**

Que.	1	2	3	4	5	6	7	8	9
Ans.	D	D	В	В	С	А	А	Α	В

# SOLUTIONS

Sol.1 (D) α-particles pass through because most part of the aotm is empty.

Sol.6 (A) No. of electrons in Na<sup>+</sup> = No. of electrons in Ne = 10.

### **Sol.2** (D) Proton is ionized hydrogen.

Sol.3 (B)

Davisson and Gemer.

Sol.4 (B)

Mass of Neutron of slightly greater than proton.

#### Sol.5 (C)

Radius of atomic nucleus =  $10^{-15}$  m.

# · Atomic number = 11

(A)

Sol.7

- :. No. of protons (p) = No. of electrons  $(e^{-}) = 11$
- $\therefore$  Atomic weight = 23
- $\therefore$  No. of neutrons = 23 11 = 12.

Sol.8 (A)

Atomic size decrease along the period.

## Sol.9 (B)

isotones have same number of neutrons (= mass number – atomic number)