

VIDYA BHARATI SCHOOL Science Olympiad Class IX (January 2017)

Q1: Proton was disco	vered by: (a) Rutherford	d (b) Goldstein	(c) Chadwick	(d) J.J. Thomson
Q2: Canal rays are				
(a) -ve charged particle	es (b) +ve charge	d particles (c) be	am of neutrons	(d) gamma radiation
Q3: α-particles are				
(a) -ve charged particle	es (b) +ve charge	d particles (c) be	am of neutrons	(d) gamma radiation
Q4: An α-particle is				
(a) Hydrogen nucleus	(b) Helium nucleus	(c) Proton	(d) Electron	
	I foil experiment showe ction. It indicates that	ed that most of tl	ne α-particles p	assed through the gold
(a) the nucleus is conce (c) there is lot of empty		(b) the nucleus carries positive charge(d) the nucleus carries the most of the mass		
Q6: Two elements X a respectively. X and Y	and Y have the same at are:	omic mass but t	heir atomic nur	nbers are 20 and 21
(a) isobars	(b) isotones	(c) isomers	(d) isotopes	
Q7: In an atom, the m	ass number of an atom	is equal to the	number of	·
(a) nucleons	(b) protons	(c) electrons	(d) neu	trons
Q8: Number of neutro	ons present in Hydroge	n atom is		
(a) 0 (b) 1	(c) 2 (d) 3			
Q9: Protium, Deutriun	m and Tritium are isoto	pes of		
(a) Rhodium	(b) Sodium	(c) Hydrogen	(d) Heli	um
Q10: If Z represents the neutrons in an atom of	he atomic number and can be computed as	A represents ma	ass number, the	en the number of
(a) A + Z	(b) A – Z	(c) Z – A	(d) Z	
Q11: If Z represents to electrons in an atom	he atomic number and can be computed as	A represents ma	ass number, the	en the number of
(a) A + Z	(b) A – Z	(c) Z – A	(d) Z	
Q12: The electronic c	onfiguration of an aton	n is 2,8,3. Numbe	er of valence el	ectrons in the atom is
(a) 13	(b) 10	(c) 3	(d) 8	

Q13: The number of electrons in the outermost shell in the atom of an inert element is						
(a) 0	(b) 1	(c) 2	(d) 8			
Q14: Which one of the following will have the maximum charge/mass ratio?						
(a) electron	(b) proton	(c) neutron	(d) α-particle			
Q15: Maximum number of electrons that can be accommodated in M shell is:						
(a) 2	(b) 8	(c) 18	(d) 32			
Q16: Cathode Rays are:						
(a)+vely charged (b)	Neutral (c) -vely Charg	ged (d) None of the	se			
Q17: JJ Thompson discovered:						
(a) α-scattering experim	nent (b) Bohr Model	(c) Apple Pie M	lodel (d) Both A & B			
Q18: Forms of elements having similar Atomic number but different atomic mass are called:						
(a) isobars	(b) isotones	(c) isomers	(d) isotopes			
Q19: Goitre can be cured by:						
(a) Uranium (b) Iodi	ne (c) Iron	(d) Calcium				
Q20: Valency of Phosphorous is:						
(a) 3 (b) 5	(c) 3 & 5 (d) 2					

^{*}For more practice material please click:www.brilliant.org;www.sofolympiadtrainer.com; www.olympiadhelper.com