	Regents Pract	ice 25 Quest	tions Quiz	1 (1-26 mult	iple choice)		
1 In which type of ch (1) synthesis	nemical reaction do tw (2) double replacem	wo or more reactanent (3) sin	nts combine to angle replacement	form one produ nt (4) de	e product, only? (4) decomposition		
2 Which statement ex(1) Neon is a gas at(3) Neon has a low	xplains why neon is a t STP. melting point.	a Group 18 eleme (2) Neon ator (4) Neon ator	nt? ns have a stable ns have two elec	valence electro ctrons in the fir	on configuration.		
3 Which element has (1) boron	chemical properties (2) neon (that are most sim 3) chlorine	ilar to the chem (4) oxyger	ical properties	of fluorine?		
4 What occurs as two (1) A bond is forme (3) A bond is broke	o atoms of iodine con ed as energy is absort en as energy is absort	nbine to become a bed. bed.	a molecule of io (2) A bond i (4) A bond i	dine? s formed as end is broken as end	ergy is released. ergy is released.		
5 What is the number (1) 1 (2)	r of pairs of electrons 3 (3) 2	that are shared b (4) 6	etween the nitro	gen atoms in a	molecule of N ₂ ?		
 6 Which phrase desci (1) a negatively cl (2) a negatively cl (3) a positively ch (4) a positively ch 	ribes an atom? harged nucleus surrou harged nucleus surrou harged nucleus surrou harged nucleus surrou	unded by positive unded by positive unded by negative unded by negative	ly charged proto ly charged elect ly charged proto ly charged elect	ons trons ons trons			
7 An orbital is define (1) an electron	ed as a region of the r (2) a nucleus	nost probable loc (3) a n	ation of eutron	(4) a proton			
 8 The bright-line spe (1) protons move f (2) protons move f (3) electrons move (4) electrons move 	ctrum of an element from lower energy sta from higher energy st from lower energy st from higher energy	in the gaseous phates to higher ener ates to lower ener states to lower ener states to higher en states to lower en	ase is produced rgy states rgy states ergy states ergy states	as			
9 An atom of lithium (1) electrons and n	-7 has an equal numb eutrons (2) elec	per of ctrons and protons	s (3) positi	rons and neutro	ons (4) positrons and proton		
10 Which set of valu (1) 1 atm and 101	es represents standar .3 K (2) 1 kPa	d pressure and sta and 273 K	ndard temperatu (3) 101.3 kPa	ure? a and 0°C	(4) 101.3 atm and 273°C		
11 Which statement a(1) The atom has 8(3) The atom has 8	about one atom of an 3 protons. (2 3 neutrons. (4	element identifie 2) The difference 4) The sum of the	the element? between the nur number of proto	nber of neutror ons and neutror	us and protons in the atom is 1 us in the atom is 16.		
12 A substance is cla	ssified as either an el	lement or a					

(1) compound (2) ion (3) gas (4) solid

14 A solid element t	hat is brittle, a poor	conductor of e	lectricity, and ca	in covalent bonds is	s classified as a			
(1) nonmetal (2) noble gas		(3)	metalloid	(4) metal	(4) metal			
15 Three forms of en	nergy are							
(1) chemical, exo	thermic, and temper	rature	(2) chemical	, thermal, and elect	tromagnetic			
(3) electrical. nu	clear, and temperatu	ıre	(4) electrical, mechanical, and endothermic					
(-) ,	r i i i i i i i i i i i i i i i i i i i		()	,				
16 What is the total	amount of host rocu	irad to malt 1 (0 grom of U O	at $0 ^{\circ}$ C and 1 atm	acanhara?			
(1) 4 19 I	(2) 272 I	(2) 224 I	$10 \text{ grain of } \Pi_2 \text{O}_3$	$S_{\rm p}$ at 0. C and 1 atm.	losphere :			
(1) 4.10 J	(2) 373 J	(3) 334 J	(4) 2	.200 J				
17 Which compound	l is soluble in water	?						
(1) PbS	(2) Na_2S	(3) BaS	(4) Fe_2S_3					
18 Compared to a 26	6-gram sample of Na	aCl _(s) at STP, a	52-gram sample	of NaCl _(s) at STP I	nas			
(1) a different de	ensity	(3) (2) a	different gram-	formula mass				
(3) the same che	mical properties	(<u>-</u>) t (4) t	he same volume	· · · · · · · · · · · · · · · · · · ·				
(3) the sume one	inical properties		ne sune volume					
	.1 . 1.1 1							
19 A gas changes di	rectly to a solid duri	ng	1					
(1) fusion	(2) saponification	n (3)	deposition	(4) decomposi	tion			
20 The phase of a sa	mple of a molecular	r substance at S	TP is not detern	nined by its				
(1) arrangement	of molecules	()) intermolecular	forces				
(1) arrangement	ologulas	(2) melecular stru	atura				
(3) number of m	olecules	(2	inolecular stru	icture				
21 Which atom has t	the weakest attraction	on for electrons	in a chemical be	ond?				
(1) a boron aton	n (2) a fl	uorine atom	(3) a ca	lcium atom	(4) a nitrogen	atom		
22 Which element is	a liquid at 305 K a	nd 1.0 atmosph	ere? (1) magne	esium (?) galliur	n (3) fluorine	(4) iodine		
22 which clement is	a fiquid at 505 K a	nd 1.0 atmosph	ere: (1) magne	Siulli (2) gailiui	II (3) Indofine	(4) Iouine		
				10				
23 Which list of eler	nents consists of a r	netal, a metallo	old, and a nonme	etal?				
(1) Li, Na, Rb	(2) Sn, Si, C	(3) Cr, M	o, W (4) C), S, Te				
24 At STP which pl	aveical property of a	luminum alwa	ve remains the s	ama from cample to	a cample?			
24 At SII, which pi	(2) longth	(2) dangit	(4)	ame nom sample u	5 sample:			
(1) mass	(2) length	(3) densit	y (4) v	June				
25 Which statement	describes a chemica	al property of s	ilicon?					
(1) Silicon has	a blue-gray color.	•	(2) Silicon is	a brittle solid at 20.	°C.			
(3) Silicon melt	ts at 1414°C.		(4) Silicon rea	acts with fluorine.				
26 A commune 1' 1	noleon doer 11							
20 A compound is b	roken down by cher	nical means du	ring	11 - 4	(4) 61/			
(1) chromatogra	(2)	electrolysis	(3) disti	illation	(4) Illtration			