## Regents Practice 25 Questions Quiz 2 (27-51 multiple choice)

27 Which quantities must (1) mass, charge, det		chemical reacti harge, energy		ge, volume	, density	(4) charg	e, volume, energy	
28 Which phrase describe (1) symmetrical and (3) asymmetrical and	polar	charge and the (2) symmetr (4) asymmet	ical and n	onpolar	lecule?			
29 What is the charge of the	he nucleus of an oxy	gen atom?	(1) 0	(2) 8	(3) 2	(4) 16		
30 Which ion has no elect	rons? (1) H	(2) Na (3)	) Li (	4) Rb				
31 To break a chemical bo	ond, energy must be	(1) absorbed	(2) pr	oduced	(3) destr	royed	(4) released	
32 Every chlorine atom ha (1) 7 electrons	(2) 17 neutrons	(3	3) a mass r	number of 3	5	(4) an aton	nic number of 17	
33 Which substance can n (1) ammonia		by a chemical cost (3) methanol	_	phosphorus	S			
34 At standard pressure, w (1) HCl (2) I	which substance becons NaCl (3) Ke		ole in wate ) NH <sub>4</sub> Cl	r as tempera	ature incre	eases from	10. to 80.°C?	
35 Which type of concentration the result is multipli		when the grams	s of solute	is divided b	y the grar	ns of the so	olution, and	
(1) molarity	(2) percent by mass	(3) p	(3) parts per million			(4) percent by volume		
36 Which type of energy i (1) chemical energy	s associated with the (2) nuclear en		on of atom			sample of a		
37 In which type of chemi (1) decomposition	cal reaction does on (2) double replac		•	vo or more preplacement		4) synthesi	is	
38 Which statement expla	ins why argon is a C	Group 18 eleme	nt?					
(1) Argon is a gas at S <sup>7</sup> (3) Argon has a low mo		(2) Argon ato (4) Argon ato				_	ration.	
39 Which element has che				chemical pr (4) sulf	_	f chlorine?		

(1) A bond is formed	• •			, ,	narov is ralassad		
<ul><li>(1) A bond is formed as energy is absorbed.</li><li>(3) A bond is broken as energy is absorbed.</li></ul>			<ul><li>(2) A bond is formed as energy is released.</li><li>(4) A bond is broken as energy is released.</li></ul>				
(3) 11 bond is broken t	is energy is absorbed.		(1) 11 001	ia is broken as c	nergy is released.		
41 What is the number of	-		etween the n	itrogen atoms in	a molecule of O <sub>2</sub> ?		
(1) 1 (2) 3	(3) 2	(4) 6					
42 Which phrase describe (1) a negatively charg (2) a negatively charg (3) a positively charg (4) a positively charg	ged nucleus surrounde ged nucleus surrounde ed nucleus surrounde	ed by positively d by negatively	y charged ele y charged pr	ectrons otons			
(4) a positively charg				ections			
43 An orbital is defined a (1) an electron	as a region of the mos (2) a nucleus	t probable loca (3) a ne		(4) a proton			
44 The bright-line spectric (1) protons move from (2) protons move from (3) electrons move from (4) electrons move from (5) electrons move from (6) electrons move from (7) electrons move from (8) el	n lower energy states n higher energy states om lower energy state	to higher eners to lower eners to higher eners	gy states gy states ergy states	ed as			
45 An atom of lithium-7 (1) electrons + neutro	-		(3) positro	ons + neutrons	(4) positrons + protons		
46 Which set of values re (1) 1 atm and 101.3 l	_		-	nture? «Pa and 0°C	(4) 101.3 atm and 273°C		
47 Which statement about (1) The atom has 1 pro (3) The atom has 2 ne	oton. (2) The	e difference be	tween the nu	ımber of neutron	as and protons in the atom is 1. s in the atom is 3.		
48 A substance is classifi	ed as either an elemen	nt or a					
(1) compound	(2) solution	(3) hete	erogeneous 1	nixture	(4) homogeneous mixture		
49 A solid element that i	s malleable, a good co	onductor of ele (3) metallo	•	reacts with oxy (4) nonmetal	gen is classified as a		
50 Three forms of energy (1) chemical, exothe (3) electrical, nuclea	ermic, and temperatur			thermal, and ele mechanical, and	· ·		
51 What is the total amou	-	vaporize 1.00 (3) 334 J	gram of H <sub>2</sub> 0 (4) 22	` '	d 1 atmosphere?		