CHEMISTRY CLASS 11 BATCH

SOME BASIC CONCEPT OF CHEMISTRY

DPP-01

-	TT 71 .	•	
1.	What	1S	matter?

- (1) Anything which has mass but does not occupies space
- (2) Anything which has mass and occupies space
- (3) Anything which neither has mass nor occupies space
- (4) Anything which does not have mass but it occupies space
- **2.** Which of the following statement is correct?
 - (1) Liquids have definite volume but not the definite shape
 - (2) Gases have neither definite volume nor definite shape
 - (3) Both A and B
 - (4) None of the above
- 3. In gaseous state, molecules can move
 - (1) Only in one direction
 - (2) Only in fixed path
 - (3) Randomly in all directions
 - (4) Upward and downward only
- **4.** The gases are highly compressible because
 - (1) the molecules move randomly
 - (2) the molecular force of attraction is very weak
 - (3) The separation between molecules is very large
 - (4) The separating force is strong
- 5. Which state has maximum intermolecular force?
 - (1) Solid
- (2) Liquid
- (3) Gas
- (4) Plasma
- **6.** An atoms has 26 electrons and its atomic weight is 56. The number of neutrons in the nucleus of the atom will be
 - (1) 26
 - (2) 30
 - (3) 36
 - (4) 56

7. An element X has the following isotopic composition:

 200 X : 90%

 199 X : 8.0%

 $^{202}X:2.0\%$

The weighted average atomic mass of the naturally occurring element X is closest to

- (1) 199 amu
- (2) 202 amu
- (3) 201 amu
- (4) 200 amu

8. Which of the following atom has more electrons than neutrons?

- (1) C
- (2) F^{-}
- $(3) 0^{2}$
- $(4) Al^{3+}$

9. Which property of an element is always a whole number?

- (1) Atomic weight
- (2) Equivalent weight
- (3) Atomic number
- (4) Atomic volume

10. Atomic weight of chlorine is 35.5. It has two isotopes of atomic weight 35 and 37. What is the percentage of the heavier isotope in the sample?

- (1) 5
- (2) 10
- (3) 25
- (4) 20

11. B has two isotopes ¹⁰B (19%) and ¹¹B (81%). The atomic mass of B is

- (1) 10.81
- (2) 11.5
- (3) 11
- (4) 10.5

12. If an element Z exist in two isotopic form Z^{50} and Z^{52} . The average atomic mass of Z is 51.7. Calculate the abundance of each isotopic forms

- (1) Z^{50} (15%), Z^{52} (85%)
- (2) Z^{50} (85%), Z^{52} (15%)
- (3) Z^{50} (5%), Z^{52} (95%)
- (4) Z^{50} (95%), Z^{52} (5%)

13.	respect to atomic masses 12 and 28 is			Sum of proton, electron and neutron in 1 molecule of $H_2S_2O_8$
	(1) 2:3	(2) 3:2		(1) 290
	(3) 3:7	(4) 7:3		(2) 292(3) 294
14.	Which is not a basi	c postulate of Dalton's atomic		(4) 296
14.	theory?	e postulate of Dalton's atomic		(1) 270
	•	her created nor destroyed in a	22.	The number of electrons in Cl ⁻ ion is
	chemical reaction	_		(1) 19 (2) 20
	(2) Different eleme	ents have different types of		(3) 18 (4) 35
	atoms.	7		
		ement may be different due to	23.	An atom which has lost one electron would be
	presence of isoto	_		(1) Negatively charged
		s composed of extremely small		(2) Positively charged
	particles called a	atoms		(3) Electrically neutral
				(4) Carry double positive charge
15. Chlorine atom differs from chloride ions in the			24.	Positive ions are formed from the neutral atom by the
	number of	42.		(1) Increase of nuclear charge
	(1) Proton	(2) Neutron		(2) Gain of protons
	(3) Electrons	(4) Protons and electrons		(3) Loss of electrons
				(4) Loss of protons
	_	7 protons and 7 electrons, the	25	TTI I CIL I C
	nitride ion (N^{3-}) will ha		25.	The nucleus of the atom consists of
	(1) 7 protons and 10 e			(1) Proton and neutron
(2) 4 protons and 7 electrons				(2) Proton and electron
(3) 4 protons and 10 electrons				(3) Neutron and electron
(4) 10 protons and 7 electrons			(4) Proton, neutron and electron	
17 .	17. Sodium atom differs from sodium ion in the number		26.	The number of electrons in [19K ⁴⁰] is
1	of	nom sociam for in the number		(1) 19 (2) 20
	(1) Electron	(2) Protons		(3) 18 (4) 40
	(3) Neutrons	(4) Does not differ		
	(-)		27 .	In the nucleus of 20Ca ⁴⁰ there are
18 .	18 . The number of electrons in one molecule of CO ₂ are			(1) 40 protons and 20 electrons
	(1) 22	(2) 44		(2) 20 protons and 40 electrons
	(3) 66	(4) 88		(3) 20 protons and 20 neutrons
				(4) 20 protons and 40 neutrons
19. The number of electrons in the atom which has 20				
protons in the nucleus is		28.	Nitrogen atom has an atomic number of 7 and oxygen	
	(1) 20	(2) 10		has an atomic number 8. The total number of
	(3) 30	(4) 40		electrons in a nitrate ion (NO ₃ ⁻) will be
				(1) 8
20. Number of neutrons in 1 molecule of CO ₂ are			(2) 16	
	(1) 22	(2) 20		(3) 32
	(3) 12	(4) 16		(4) 64

ANSWER KEY

- 1. (2)
- 2. (3)
- 3. (3)
- 4. (3)
- **5.** (1)
- 6. (2)
- 7. (4)
- 8. (3)
- 9. (3)
- 10. (3)
- 11. (1)
- 12. (1)
- 13. (3)
- 14. (3)

- 15. (3)
- 16. (1)
- 17. (1)
- 18. (1)
- 19. (1)
- 20. (1)
- 21. (2)
- 22. (3)
- 23. (2)
- 24. (3)
- **25.** (1)
- 26. (1)
- 27. (3)
- 28. (3)