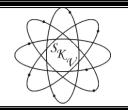
CHEMISTRY TEST 2010-11

STD : XI CHAP : OT - 1 MARKS : 40 DURA : 1.00 Hr



MULTIPLE CHOICE OUESTIONS

1.	Which system	was devised for	r various units	by Frencl	n academy of	f science?

a) Fundamental system

b) metric system

c) scientific system

- d) none
- **2.** Mention unit of luminous intensity?
 - a) Meter
- b) Kelvin
- c) Ampere
- d) candela

- 3. Isobars have which of the following?
 - a) Protons are different

b) atomic mass is same

c) atomic no. is different

- d) all
- **4.** What is the value of Avogadro number?
 - a) 6.022 x 10²³
- b) 6.022 x 10⁻²³
- c) 6.22×10^{23}
- d) 6.22 x 10⁻²³

- **5.** Mention no. of neutrons and protons in oxygen?
 - a) 8, 9
- b) 8, 16
- c) 8, 8
- d) 16, 8
- **6.** Which information is given by a balanced chemical reaction?
 - a) Process
- b) quantitative
- c) weight
- d) reactivity
- 7. Molecular and equivalent weight are same. Then what about normality and molarity?
 - a) Same
- b) half
- c) zero
- d) one

- **8.** Which of the following has significant no. 2?
 - a) 12.08
- b) 0.0018
- c) 8.001
- d) 20.42
- **9.** How many fundamental units are there in SI system?
 - a) 5
- b) 6

c) 7

d) 8

- **10.** What are the masses of isotopes of chlorine?
 - a) 35, 37
- b) 35, 36
- c) 35, 39
- d) 35, 33

- 11. In which year SI system was adopted?
 - a) 1947
- b) 1962
- c)1960
- d) 1791
- 12. How many moles of FeCl₃ are present in 2.4 M of FeCl₃ solution?
 - a) 2.92
- b) 1.82
- c) 3.92
- d) 1.92

- **13.** How much % of H is present in NH₃?
 - a) 82.3 %
- b) 17.6 %
- c) 92.3 %
- d)27.6%
- **14.** One atomic mass unit is how much part the mass of carbon -12 atoms?
 - a) 1/4
- b) 1/12
- c) 1/8
- d) 1/16

	a) 1	b) 2	c) 3	d) 4				
18. Sugar forms which type of mixture with water? a) Heterogeneous b) Homogeneous c) dye d) none								
19. Which of the following has the largest number of atoms? a) 1g of ozone b) 1g of nitrogen c) 1g of helium d) 1g of oxygen								
20. What is the number of molecules in 360 g of water? a) 21 b) 19 c) 20 d) 22								

SHORT QUESTIONS

- 1. What is the law called which deals with the equal volumes of gases and equal number of molecules.
- 2. Name the type of mixture if its composition is not uniform throughout.
- **3.** Express 432,000 in scientific notation.
- **4.** What is the S.I. unit of Volume.
- **5.** One liter of a gas is at a pressure of 10⁻⁷ mm of Hg at 25⁰C. How many molecules are present in the vessel?
- **6.** How many moles of electron weigh one kilogram?
- 7. Find the molarity of solution prepared by dissolving 4g of NaOH in 3L of solution.
- **8.** How much water is required to dilute 10ml of 10N hydrochloric acid to make it exactly decinormal?
- **9.** 20 gms of glucose dissolved in 200g of water to prepare a solution. Calculate the mass percentage of glucose in the solution.
- **10.** Find the number of oxygen atoms in 10.6 g of Na₂CO₃.
- 11. One atom of an element weights 1.8×10^{-22} gm. What is the atomic mass of element?
- **12.** Solve the following and express the answer in standard exponential form $(2.0 \times 10^{13}) + (1.5 \times 10^{14})$.
- **13.** Density of mercury is 13.6 g/cc. Find its density in Kg m $^{-3}$.
- **14.** What is the mass of 3 gram atoms of calcium?
- 15. What is scientific notation? Represent the following numbers in scientific notation-
 - (i) 0.00001492 (ii) 143.51
- **16.** Find the molarity of solution prepared by dissolving 7.1g of Na₂SO₄ in 100ml of aqueous solution.
- **17.** How many moles of sulphur will be produced when 2 moles of H₂S react with 11.2 L of SO₂ at NTP.
- **18.** Find the value of CO₂ liberated at STP when 10g of 90% pure limestone is completely heated.
- 19. A metal nitride, M₃N₂ has 28% nitrogen. What is the atomic mass of metal M?
- **20.** There are two isotope of an element with atomic mass y. The atomic mass of heavier isotope is y+2 and that of lighter one is y-1. Calculate the abundance of lighter isotope.