CHEMISTRY TEST 2010-11

STD: XICHAP: OT - 1MARKS: 40DURA: 1.00 Hr

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MULTIPLE CHOICE QUESTIONS

1.	Which system was a) Fundamental sy c) scientific system	devised for various uni stem 1	ts by French academy o b) metric system d) none	f science?
2.	Mention unit of lun a) Meter	minous intensity? b) Kelvin	c) Ampere	d) candela
3.	Isobars have which of the following? a) Protons are different c) atomic no. is different		b) atomic mass is samed) all	
4.	What is the value of a) 6.022×10^{23}	b) 6.022 x 10 ⁻²³	c) 6.22 x 10 ²³	d) 6.22 x 10 ⁻²³
5.	Mention no. of neu a) 8, 9	utrons and protons in ox b) 8, 16	ygen? c) 8, 8	d) 16, 8
6.	Which information a) Process	n is given by a balanced b) quantitative	chemical reaction? c) weight	d) reactivity
7.	Molecular and equ a) Same	ivalent weight are same b) half	. Then what about norm c) zero	ality and molarity? d) one
8.	Which of the follow a) 12.08	wing has significant no. b) 0.0018	2? c) 8.001	d) 20.42
9.	How many fundam a) 5	nental units are there in b) 6	SI system? c) 7	d) 8
10.	What are the mass a) 35, 37	es of isotopes of chlorin b) 35, 36	e? c) 35, 39	d) 35, 33
11.	In which year SI sy a) 1947	ystem was adopted? b) 1962	c)1960	d) 1791
12.	How many moles (a) 2.92	of FeCl ₃ are present in 8 b) 1.82	00 ml 2.4 M of FeCl ₃ so c) 3.92	olution? d) 1.92
13.	How much % of H a) 82.3 %	is present in NH ₃ ? b) 17.6 %	c) 92.3 %	d)27.6%
14.	One atomic mass t a) 1/4	nit is how much part the b) 1/12	e mass of carbon – 12 a c) 1/8	toms? d) 1/16
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15. How many H atom a) 1.1 x 10 ²⁴	hs are present in 1 mole b) 1.2 x 10 ²⁴	of H ₂ O molecule? c) 1.5×10^{24}	d) 6.023 x 10 ²⁴			
16. Which of the follo a) meter	wing is not a fundament b) kilogram	tal unit? c) gram	d) second			
17. Significant figure i a) 1	in 4.635 is? b) 2	c) 3	d) 4			
18. Sugar forms which a) Heterogeneous	n type of mixture with w b) Homogeneous	vater? c) dye	d) none			
19. Which of the following has the largest number of atoms?a) 1g of ozoneb) 1g of nitrogenc) 1g of heliumd) 1g of oxygen						
20. What is the number of moles 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 25^{0} C. 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 $10.6 \text{ g of } Na_2CO_3$.
- 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 Na_2SO_4 in 100ml of aqueous solution.
- **17.** How many moles of sulphur will be produced when 2 moles of H_2S react with 11.2 L of SO₂ at NTP.
- **18.** Find the volume of CO_2 liberated at STP when 10g of 90% pure limestone is completely heated.
- **19.** A metal nitride, M_3N_2 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.

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