

21) Number of moles in 100g of KClO₃.

b) 0.56

a) 0.76

Smart Guess & Test Papers

Student Name _____ Father Name _____ Roll Number _____

Class: 1st /year - Chemistry Marks : 42 Exam Format : Chapter Wise MCQs

Time: notespk.com_Nauman Sadaf | Date ______ Examiner Sig _____ Chapter#: 1

MCQ's S/Q L/Q Total

Objective Type 1. Encircle the Correct Option. $(1 \times 32 = 32)$ 1. درست جواب کے گرد دائرہ لگائی۔ 1) Isotopes differ in ✓a) Properties Which depends b) Arrangement of electrons in c) Chemical properties d) The extent to which they may be orbitals effected in electromagnetic field upon mass 2) 27 g of A1 will react completely with how much mass of O_2 to produce Al_2O_3 . a) 8 g of oxygen b) 16 g of oxygen c) 32 g of oxygen ✓d) 24 g of oxygen 3) A limiting reactant is the one which a) Is taken in lesser quantity in b) Is taken in lesser quantity in c) Gives the maximum amount of ✓d) Gives the minimum amount of the product which is required. grams as compared to other volume as compared to the other the product under consideration. reactants. reactants. 4) Isotopes differ in ✓a) Properties which depend b) Arrangement of electrons in c) Chemical properties d) The extent to which they may be affected in electromagnetic field upon mass 5) The number of Isotopes of Gold (Au) is **✓**a) 1 d) 11 6) The number of natural Isotopes is **✓**a) 280 b) 150 c) 300 d) 400 7) Isotopes differ in a) Number of atoms b) Number of Ptoton c) Number of electron ✓d) Number of neutron 8) Which of the following statement is not true. d) Isotopes with even atomic a) Isotopes with even atomic ✓ b) Isotopes with odd atomic c) Isotopes with even atomic masses are comparatively masses are comparatively masses and even atomic numbers masses and oss atomic numbers abundaat abundant are comparatively abundant are comparatively abundant 9) The number of isotopes of calcium is b) Seven **✓**a) Six c) Five d) Nine 10) Silver has natural isotopes. c) Eleven a) Nine **✓**b) Two d) Sixteen 11) Silver has isotopes. a) Nine b) Ten c) Eleven ✓ d) Sixteen 12) What is the maximum mass of chromium that can be extracted from 76g of Cr₂O₃? a) 48g **✔**b) 52g c) 104g d) 152g 13) Which of the following has highest mass at S.T.P? a) 6.02×10^{22} molecules of CO_2 b) 2 moles of CH₄ c) 0.1 g mole of N₂O **✓** d) 22.4 dm 3 of CO $_2$ at . S.T.P. 14) The number of atoms present in 0.5 moles of Na is a) 1.0×10^{23} b) 6.02×10^{23} c) 2.04×10^{23} **✓**d) 3.01×10^{23} 15) The volume occupied by 16g of CH₄ at S.T.P. d) 2.24 dm^3 a) 224.14 dm³ b) 22.414 dm³ **✓**c) 1.12 dm^3 16) The volume occupied by 1.6 g of O₂ at S.T.P. a) 24.4 dm^3 b) 2.24 dm³ **✓**c) 1.12 dm^3 d) 112 dm³ 17) The volume occupied by 1.4g of N₂ at S.T.P is a) 24.4 dm^3 b) 22.4 dm³ **✓**c) 1.12 dm^3 d) 112 dm^3 18) What are the number of moles of hydrogen atom in 3.2g of CH_4 ? (Relative atomic mass C = 12) a) 0.2 b) 0.4 c) 0.6 **✓**d) 0.8 19) One mole of water contains. b) 6.02×10^{23} atoms c) 6.02×10^{23} inons ✓d) 6.02×10^{23} molecules a) 81 g water 20) What is the ratio of volume of 2g of H₂ to the volume of 16g CH₄ both volumes are at STP b) 1:2 d) 2:1 a) 1:8 **✓**c) 1:1

c) 0.014

✓d) 0.816

22) Stoichiometry is a branch of				
a) Physics	✓b) Chemistry c) Biology		Biology	d) English
23) Stoichiometry tells us the	relationship between reactants and products.			
a) Qualitative	✓ b) Quantitative		c) Both A & B	d) None of these
24) In mass mole relationship if we are given with mass of substance the we can calculate of other substance .				
a) Mass b) No. of electron ✓c) Moles d) None of these				
25) In Mass-volume relationship if we are given with mass of one substance we can calculate of other		r substance.		
a) Mole c) Both A & B			d) None of these	
26) In stoichiometric calculate all the reactants must converted into				
✓a) Products b) Reactants c) Both A & B d) Molar mass				
27) The reactant which consumes earlier and gives least quantity of product is called.				
a) Reactant c) Stoichiometryd d) Stoichiometric amount				
28) A limiting reactant is the one which				
a) Is taken is lesser quantity to the amount in gram required			ves the maximum amount of roduct required	✓d) Gives the minimum amount of the required product
29) The amount of products obtained in a chemical reaction is called yield of that reaction .				
a) Required b) Low c) High ✓d) Actual				
30) The amount of products calculated from balanced chemical equation represents .				
a) Actual yield	✓ b) Theoretical yield		c) Both A & B	d) None of these
31) In most of the reactions the actual yield is than theoretical yield .				
a) More	✓ b) Less	c) No	ne	d) Expected yield
32) Many elements have fractional atomic masses . This is because .				
a) The mass of the atom is itself fractional	b) Atomic masses are average masses of isobars		omic masses are average es of isotopes	✓d) Atomic masses are average masses of isotopes proportional to their relative abundance
2. Write "T" for a true statement and "F" for a false statement (1 x 4 = 4)				
33) Neon has three isotopes □ True	1.79 g of gold and 0.023 g	omic mas	ss 20.18 amu. um are equal.	2. درست جواب کے سامنے (🗸) نشان لگا
35) The number of electrons in the molecules of CO and N ₂ are 14 each, so 1 g of each gas will have same number of				
electrons.				
✓ True □ False				
36) Actual yield of a chemic	al reaction may be greater	than the	theoretical yield.	
□ True				
3. Fill in the blanks. (1 x 6 = 6)				
37) The unit of relative atomic mass is				
√ amu				
38) The exact masses of isotopes can be determined by spectrograph.				
✓Mass				
39) The phenomenon of isot	opy was first discovered by	v .		
√ Soddy		,		
•	4	4: ^		
40) A limiting reagent is tha ✓Products	t which controls the quanti	ties of		
41) 4g of CH ₄ at 0°C and 1 atm pressure hasmolecules of CH ₄ ✓1.505 × 10 ²³				
42) Stoichiometric calculations can be performed only when is obeyed. Conservation				