

Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	The bond angle H - O - H in ice is closest to	A. 120° , 28° B. 60° C. 90° D. 109°
2	When quantity of electricity passed is one faraday then the mass deposited at the electrode is equal to	A. One gm. atomic weight B. One gm. Equivalent weight C. Electrochemical equivalent D. None of the above
3	Which of the substances Na, Hg, S Pt and graphic can be used as electrodes in electrolytic cells having aqueous solution?	A. Na, Pt and graphite B. Na and Hg C. Pt and graphite only D. Na and S only
4	The structure of XeF ₆	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
5	Most common reactions of benzene and its derivatives are	A. Electrophilic addition reactions B. Electrophilic substitution reactions. C. Nucleophilic addition reactions D. Nucleophilic substitution reactions
6	One mole of a gas refers to	A. The number of molecules in one litre of gas B. The number of molecules in one gram of gas C. The number of molecules contained in 12 grams of ¹² C isotope D. The number of molecules in 22.4 liters of a gas at S.T.P.
7	Calcium acetate when dry distilled gives	A. Formaldehyde B. Acetaldehyde C. Acetone D. Acetic anhydride
8	Ionic solids with defects contain	A. Equal number of cation and anion vacancies B. Interstitial anions and anion vacancies C. Cation vacancies only D. Cation vacancies and interstitial cations
9	The spectrum of helium is expected to be similar to that of	A. H B. Li ⁺ C. Na D. He ⁺
10	BiCl ₃ on hydrolysis forms a white precipitate of	A. Bismuthio is acid B. Bismuth oxychloride C. Bismuth pentachloride D. Bismuth hydroxide
11	The number of unpaired electrons in the P-subshell of oxygen atom	A. 1 B. 2 C. 3 D. 4
12	According to MO Theory the species O ⁺ ₂ possesses	A. Bond order of 2.5 B. Three unpaired electrons C. Diamagnetic character D. Stability lower than O ₂

13	Which of the following is directly related to Qualitative analysis?	A. Identification B. Separation C. Measurement D. Calculation
14	Which one of the following has the lowest boiling point?	A. B B. Al C. Ga D. Ti
15	Which of the following method is most appropriate for the manufacture of methane?	A. By reduction of CH_2CL_2 B. Wurtz reaction C. Liquefaction of natural gas D. None of these
16	The formula of nitre is	A. KNO_3 B. NaNO_3 C. NaCl D. Na_2CO_3
17	In crystal structure of sodium chloride the arrangement of Cl^- ions is	A. Fee B. Both fee and bcc C. Bee D. None of these
18	The relative rates of diffusion of a gas (Mol. wt. - 98) as compared to hydrogen will be	A. $1/7$ B. $1/5$ C. $1/4$ D. 1
19	The number of atoms contained in 11.2 L of SO_2 at S.T.P are	A. $3/2 \times 6.02 \times 10^{23}$ B. $2 \times 6.02 \times 10^{23}$ C. 6.02×10^{23} D. $4 \times 6.02 \times 10^{23}$
20	Which of the following is a molecular disease?	A. Allergy B. Cancer C. German measles D. Sickle cell anemia