

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Alum is not used	A. As a mordant in dyeing B. As an insecticide C. In purification of water D. In tanning of leather
2	Dilute hydrochloric acid solution cannot be concentrated by boiling beyond	A. 11% B. 33% C. 44% D. 22%
3	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
4	Which is true for an element R present in group 13 of the periodic table?	A. It is a gas at room temperature B. It has oxidation state of +4 C. It forms R_2O_3 D. It forms RX_2
5	Which one of the halogen acid is a liquid?	A. HF B. HCl C. HBr D. HI
6	In a crystal $a \neq b \neq c$, $\alpha = \gamma = 90^\circ$ and $\beta \neq 90^\circ$, it is	A. Monoclinic B. Rhombic C. Trigonal D. Tetragonal
7	The total number of protons in 10 g of calcium carbonate is ($N_0 = 6.023 \times 10^{23}$)	A. 1.5057×10^{24} B. $14.4444465637207 \times 10^{24}$ C. $14.4444465637207 \times 10^{24}$ D. $14.4444465637207 \times 10^{24}$
8	Which one is the property of an ideal solvent	A. Should be expensive B. It should react chemically with the solute C. Impurities should crystallize along with the solute D. Should be safe to use
9	Maximum number of active hydrogens are present in	A. Acetic-acid B. Glycerol C. Methane D. Methanol
10	Which of the following is an example of body centred cube?	A. Magnesium B. Zinc C. Copper D. Sodium
11	The reaction/method that does not give an alkane is	A. Catalytic hydrogenation of alkanes B. Wurtz reaction C. Hydrolysis of alkyl magnesium bromide D. Dehydrohalogenation of an alkyl halid.
12	Addition of iron filling to $CuSO_4$ solution caused precipitation of Cu owing to the	A. Reduction of Cu^{2+} B. Oxidation of Cu^{2+} C. Reduction of Fe D. Reduction of Fe^{3+}
		A. Mg - -

13	The wire in the flash bulbs is made up of	B. Ba C. Cu D. Ag
14	For most of the chemical reaction the rate of reaction	A. Increases as the reaction proceeds B. Decreases as the reaction proceeds C. May increase or decrease during the reaction D. Remains constant as the reaction
15	Phosphide ion has the electronic structure similar to that of	A. Nitride ion B. Fluoride ion C. Sodium ion D. Chloride ion
16	Which of the following has greatest reducing power?	A. HI B. HBr C. HCl D. H ₂
17	The rate at which a substance reacts depends on its	A. Atomic weight B. Equivalent weight C. Molecular weight D. Active mass
18	BiCl ₃ on hydrolysis forms a white precipitate of	A. Bismuthio is acid B. Bismuth oxychloride C. Bismuth pentachloride D. Bismuth hydroxide
19	Wholer prepared ures from	A. Ammonia B. NH ₄ CNO C. NH ₃ D. uric acid
20	Inter molecular forces in solid hydrogen are	A. Covalent forces B. Van der Waal forces or London dispersion force C. Hydrogen bonds D. All of these