

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Heating a mixture of sodium benzoate and soda lime gives	A. Benzene B. Methane C. Sodium benzoate D. Calcium benzoate
2	Atmosphere of big/metropolitan cities is polluted most by	A. Automobile exhausts B. Pesticide residue C. Household waste D. Radio-active fall out
3	The rate at which a substance reacts depends on its	A. Atomic weight B. Equivalent weight C. Molecular weight D. Active mass
4	The structure of XeF_6	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
5	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. $4 \times 6.02 \times 10^{23}$
6	The total pressure exerted by a number of non reacting gases is equal to the sum of partial pressure of the gases under the same conditions is known as	A. Boyle's law B. Charle's law C. Avogadro's law D. Dalton's law
7	Octane number is zero for	A. n-Heptane B. Isooctane C. n-Hexane D. Isoheptane
8	Salol is prepared from	A. Salicylic acid and phenol B. Salicylic acid and methyl alcohol C. Both D. None
9	Sea weeds are important source of	A. Iron B. Chlorine C. Iodine D. Bromine
10	The addition of HBr is easiest with	A. $\text{CH}_2 = \text{CHCl}$ B. $\text{CICH} = \text{CHCl}$ C. $\text{CH}_3 - \text{CH} = \text{CH}_2$ D. $\text{CH}_2 = \text{CH}_2$
11	The principle constituent of pyrex glass is	A. Zn B. B C. Pb D. Cl
12	Octane number can be changed by	A. Isomerisation B. Alkylation C. Cyclisation D. All of these
13	Hydrolytic conversion of sucrose into glucose and fructose is known as	A. Induction B. Inversion C. Insertion D. Inhibition
14	A certain liberate 0.5 g of hydrogen in 2 h. How many grams of copper can be liberated by the same current flowing for the same time in a copper sulphate solution?	A. 12.7 gm B. 15.9 gm C. 31.8 gm D. 63.5 gm
15	When electricity is passed through molten $\text{Al}_2\text{O}_3 + \text{Na}_3\text{AlF}_6$ and 13.5 gms Al are deposited, the number of faraday must be	A. 0.5 B. 1.0 C. 1.5

16	Isopropyl alcohol on oxidation forms	A. Acetone B. Ether C. Ethylene D. Acetaldehyde
17	In which molecule carbon atom is sp^2 hybridized	A. $CH₄$ B. $C₂H₄$ C. $C₂H₂$ D. None of the above
18	Which of the following geometry is associated with the compound in which the central atom assumes sp^3 d hybridization?	A. Planar B. Pyramidal C. Angular D. Trigonal bipyramidal
19	Which of the following alkali metal hydroxides is the strongest base?	A. LiOH B. NaOH C. KOH D. CaOH
20	The alkali metal which is liquid at 15°C is	A. K B. Cs C. Na D. None
