

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	For preparing an alkane, a concentrated aqueous solution of sodium or potassium salt of saturated carboxylic acid is subjected to	A. Hydrolysis B. Oxidation C. Hydrogenation D. Electrolysis
2	SO ₂ and NO ₂ pollution by increasing	A. Alkalinity B. Acidity C. Neutrality D. Buffer action
3	Benzene is obtained by fractional distillation of	A. Heavy oil B. Anthracene oil C. Middle oil D. Light oil
4	Which one is not a pollutant normally?	A. Hydrocarbons B. Carbon dioxide C. Carbon monoxide D. Sulphur dioxide
5	Hydrogen chloride molecule contains	A. Covalent bond B. Double bond C. Co-ordinate bond D. Electrovalent bond
6	Toluene can be oxidized to benzoic acid by	A. KMnO ₄ (alk) B. $K_2Cr_2O_7$ (acidic) C. Both D. None
7	Crystal can be classified in to basic crystal habits	A. 7 B. 4 C. 14 D. 3
8	The symbol of the element whose atoms have the outer most electronic configuration $2s^2 2p^3$ is	A. N B. Li C. P D. Na
9	Enzymes are	A. Proteins B. Mineral C. Oils D. Fatty acids
10	When electricity is passed through molten $Al_2O_3 + Na_3AlF_6$ and 13.5 gms Al are deposited, the number of faraday must be	A. 0.5 B. 1.0 C. 1.5 D. 2.0
11	Which of the following has greatest tendency to lose electron?	A. F B. Fr C. S D. Be
12	An exothermic reaction is one in which the reacting substances	A. Have more energy than the products B. Have less energy than the products C. Have the same energy as the products D. Are at a higher temperature than the products
13	Which of the following statements is most appropriate about effective nuclear charge? It depends upon	A. The shielding constant B. The atomic number C. The charge on the nucleus D. Both the nuclear charge and the shielding constant
		A. Covalent forces B. Van der Waal

14	Inter molecular forces in solid hydrogen are	<p>forces or London dispersion force</p> <p>C. H_2</p> <p>D. All of these</p>
15	Dilute hydrochloric acid solution cannot be concentrated by boiling beyond	<p>A. 11%</p> <p>B. 33%</p> <p>C. 44%</p> <p>D. 22%</p>
16	Setting of plaster of paris involves	<p>A. Oxidation with atmospheric oxygen</p> <p>B. Combination with atmosphere CO_2</p> <p>C. Dehydration</p> <p>D. Hydration to yield another hydrate.</p>
17	Wholer prepared ures from	<p>A. Ammonia</p> <p>B. NH_4CNO</p> <p>C. NH_3</p> <p>D. uric acid</p>
18	Which of the following pairs are chemically dissimilar?	<p>A. Na and K</p> <p>B. Ba and Sr</p> <p>C. Zr and Hf</p> <p>D. Ca and Zn</p>
19	Which quantum number is sufficient to describe the electron in hydrogen atom?	<p>A. l</p> <p>B. n</p> <p>C. m</p> <p>D. s</p>
20	Water (H_2O) is liquid while hydrogen sulphide (H_2S) is a gas because	<p>A. Water has higher molecular weight</p> <p>B. Hydrogen sulphide is a weak acid</p> <p>C. Sulphur has high electronegativity than oxygen</p> <p>D. Water molecules associate through hydrogen bonding.</p>