

## NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Which of the following metal exhibits more than one oxidation?	A. Na B. Mg C. Fe D. Al
2	Which one is not a pollutant normally?	A. Hydrocarbons B. Carbon dioxide C. Carbon monoxide D. Sulphur dioxide
3	The rate of reaction between A and B increases by a factor of 100 when the concentration with respect to A is increased 10 folds the order of reaction w.r.t A is	A. 10 B. 1 C. 4 D. 2
4	Carbon atom holding halogen in aryl halides is	A. $sp^2$ -hybridised B. $sp^3$ C. $sp$ D. $sp^2$
5	Which of the following represents elements in order of increasing atomic size?	A. I, Br, Cl B. Na, Mg, C C. C, N, O D. Li, Na, K
6	Setting of plaster of paris involves	A. Oxidation with atmospheric oxygen B. Combination with atmosphere C. Dehydration D. Hydration to yield another hydrate.
7	Octane number can be changed by	A. Isomerisation B. Alkylation C. Cyclisation D. All of these
8	1-Chloropropane has two isomers It is an example of	A. Chain isomerism B. Position isomerism C. Functional group isomerism D. Metamerism
9	Which of the following value of $\Delta H_f^\circ$ represent that the product is least stable?	A. -94.0 kcal mol <sup>-1</sup> B. -231.6 kcal mol <sup>-1</sup> C. +21.4 kcal mol <sup>-1</sup> D. +64.8 kcal mol <sup>-1</sup>
10	Which of the following is a molecular disease?	A. Allergy B. Cancer C. German measles D. Sickle cell anemia
11	Which of the following is directly related to Qualitative analysis?	A. Identification B. Separation C. Measurement D. Calculation

12	Which quantum number is sufficient to describe the electron in hydrogen atom?	B. n C. m D. s
13	Which of the following is acidic?	A. $\text{SO}_3$ B. $\text{N}_2\text{O}$ C. BeO D. HgO
14	Tollen's reagent is	A. Ammonical cuprous chloride B. Ammonical cuprous oxide C. Ammonical silver bromide D. Ammonical silver nitrate
15	Natural fertilizer provides phosphorus to plants in the form of $\text{P}_2\text{O}_5$	A. 1.2 kg B. 2.2 kg C. 3.2 kg D. 4 kg
16	Cannizzaro reaction is not given by	A. Trimethyl acetaldehyde B. Acetaldehyde C. Benzaldehyde D. Formaldehyde
17	Acetic anhydride is obtained from acetyl chloride by the reaction of	A. $\text{P}_2\text{O}_5$ B. $\text{H}_2\text{SO}_4$ C. $\text{CH}_3\text{COONa}$ D. $\text{CH}_3\text{COCH}_3$
18	2 g oxygen contains number of atoms equal to that in	A. 0.5 g of hydrogen B. 4 g of sulphur C. 7 g of nitrogen D. 2.3 g of sodium
19	Which of the following species participate in sulphonation of benzene ring?	A. $\text{H}_2\text{SO}_4$ B. $\text{HSO}_3^-$ C. $\text{SO}_3$ D. $\text{SO}_2$
20	Hess's law deals with	A. Changes in heat of reaction B. Rate of reaction C. Equilibrium constant D. Influence of pressure on volume of a gas