

## NAT I Medical Chemistry

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Sr	Questions	Answers Choice
1	Which of the following does not reflect the periodicity of elements?	A. Bonding behaviour     B. Electronegativity     C. Ionisation potential     D. Neutron/proton ratio.
2	Mark the smallest atom	A. F B. CI C. Br D. I
3	Which one of the following compounds does not exist?	A. NCI <sub>5</sub> B. AsF <sub>5</sub> C. SbCI <sub>5</sub> D. PF <sub>5</sub>
4	A zero order reaction is one whose rate is independent of	A. Temperature of the reaction B. The concentration of the reactants C. The concentration of the products D. The material of the vessel in which the reaction is carried out
5	At 500 K the equilibrium constant for reaction cis- $C_2H_2Cl_2$ trans- $C_2H_2Cl_2$ is 0.6. At the same temperature the equilibrium constant for the reaction trans- $C_2H_2Cl_2$ cis- $C_2H_2Cl_2$ will be	A. 0.60 B. 1.67 C. 0.66 D. 2.6
6	Natural frertilizer provides phosphorus to plants in the form of P <sub>2</sub> O <sub>5</sub>	A. 1.2 kg B. 2.2 kg C. 3.2 kg D. 4 kg
7	The freezing point of 1 molal NaCl solution assuming NaCl to be 100% dissociated in water in	A1.86°C B3.72°C C. +1.86°C D. +3.72°C
8	Which is not a colligative property?	A. Osmotic pressure     B. Lowering of vapour pressure     C. Depression of freezing point     D. Elevation of boiling point
9	The wire in the flash bulbs is made up of	A. Mg B. Ba C. Cu D. Ag
10	Which species represents the electrophile in aromatic nitrotaion?	A. NO <sup>-</sup> <sub>2</sub> B. + <div>NO<sub>2</sub></div> C. NO2 D. <span style="font-size: 14.44444465637207px;">NO</span> <sup>-</sup> <sub>3</sub>
11	Hess's law deals with	A. Changes in heat or reaction     B. Rate of reaction     C. Equilibrium constant     D. Influence of pressure on volume of a gas
12	The maximum number of electrons in a subshell for which / = 3 is	A. 14 B. 10 C. 8 D. 4
13	Causticisation process is used for the preparation of	A. Caustic soda B. Caustic potash C. Baryata solution D. Slaked lime
14	The weight of 11.2 liters of CO <sub>2</sub> at S.T.P. would be	A. 88 g B. 44 g C. 32 g D. 22 g

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15	The structure of XeF <sub>6</sub>	A. Distorted octahedral     B. Pyramidal     C. Tetrahedral     D. None of the above
16	Leblanc process is employed in the manufacture of	A. Baking soda B. Washing soda C. Potash D. Plaster of paris
17	Variable valency is generally exhibited by	A. Normal elements B. Transition elements C. Metallic elements D. None of these
18	Among the alkaline earth metals the element forming predominantly covalent compounds is	A. Be B. Mg C. Sr D. Calcium
19	Which of the following represents elements in order of increasing atomic size?	A. I,Br,CI B. Na,Mg,C C. C,N,O D. Li,Na,K
20	Carbon monoxide is pollutant as it	A. Inactivates nerves     B. Inhibits glycolysis     C. Combines with oxygen     D. Combines with hemoglobin