

## NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Which of the following has linear shape?	A. SP B. SP <sup>2</sup> C. SP <sup>3</sup> D. None of the above
2	The reference calomel electrode is made from which of the following?	A. ZnCl <sub>2</sub> B. CuSO <sub>4</sub> C. Hg <sub>2</sub> Cl <sub>2</sub> D. HgCl <sub>2</sub>
3	For the reaction $2A(g) + B(g) \ 3C(g) + D(g)$ two moles each of A and B were taken into a flask The following must always be true when the system attained equilibrium	A. [A] = [B] B. [A] < [B] C. [B] = [C] D. [A] > [B]
4	If N <sub>A</sub> is Avogadro's number then number of valence electrons in 4.2 g of nitride ions $N^{3-}$ is	A. 2.4 N <sub>A B. 4.2 <span style="font-size: 14.44444465637207px;">N</span><sub>A</sub> C. 1.6 <span style="font-size: 14.44444465637207px;">N</span><sub>A</sub> D. 3.2 <span style="font-size: 14.44444465637207px;">N</span><sub>A</sub> D. 3.2 <span style="font-size: 14.44444465637207px;">N</span><sub>A</sub></sub>
5	Which of the following with aqueous KOH will give acetaldehyde?	A. 1,2-Dichloroethane B. 1, 1-Dichloroethane C. Chloroacetic acid D. Ethyl chloride
6	Portland cement is manufactured by using	A. Limestone,clay and sand B. Limestone,gypsum and sand C. Limestone,gypsum and alumina D. Limestone,clay and gypsum
7	If a salt bridge is removed between the two half cells the voltage	A. Drops to zero B. Does not change C. Increases gradually D. Increases rapidly
8	Fertilizer are made by	A. Nature only B. Artificial methods only C. Both artificial and natural methods D. None of the above
9	Red lead is	A. PbO B. Pb <sub>3</sub> O <sub>4</sub> C. <span style="font-size: 14.44444465637207px;">Pb</span> <span style="font-size: 14.44444465637207px;">O</span> <sub>2</sub> D. <span style="font-size: 14.44444465637207px;">Pb</span> <sub>2</sub> L <span style="font-size: 14.44444465637207px;">Pb</span> <sub>4</sub> <span style="font-size: 14.44444465637207px;">O</span> <sub>4</sub> <span style="font-size: 14.44444465637207px;">O</span> <sub>3</sub>
10	In cold countries ethylene glycol is added to water in radiators of cars during winter It result in	A. Lowering in b.pt.     B. Reducing viscosity     C. Reducing specific heat     D. Lowering in freezing pt.
11	The vapour density of a gas is 11.2 The volume occupied by 11.2 g of this gas at N.T.P is	A. 22.4 liters B. 11.2 liters C. 1 liter D. 2.24 liters
		A. 10 <sup>-23</sup> kg

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B. <span style="font-size:
14.4444465637207px;">10</span><sup>-24</sup><span style="font-size:

12	The mass of the neutron is of the order of	14.444446563/2U/px;"> kg C. <span style="font-size: 14.4444465637207px;">10</span> <sup>- 26</sup> <span style="font-size: 14.4444465637207px;"> kg</span> D. <span style="font-size: 14.4444465637207px;">10</span> <sup>- 27</sup> <span style="font-size: 14.4444465637207px;">10</span> <sup>- 27</sup> <span style="font-size: 14.44444465637207px;">8nbsp;kg</span>
13	According to MO Theory the species O <sup>+</sup> <sub>2</sub> possesses	<ul><li>A. Bond order of 2.5</li><li>B. Three unpaired electrons</li><li>C. Diamagnetic character</li><li>D. Stability lower then O<sub>2</sub></li></ul>
14	Which of the following belongs to the halogen family?	A. Francium B. Polonium C. Radium D. Astatine
15	The pore size of the filter paper depends upon	<ul><li>A. Nature of the medium</li><li>B. Temperature of the medium</li><li>C. Size of the particles</li><li>D. Mass of the particles</li></ul>
16	In a crystal $a \neq b \neq c$ , $a = \gamma = 90^{\circ}$ and $\beta \neq 90^{\circ}$ , it is	A. Monoclinic B. Rhombic C. Trigonal D. Tetragonal
17	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
18	Chile salt petre is	A. NaNO <sub>3</sub> B. Na <sub>2</sub> SO <sub>4</sub> C. KNO <sub>3</sub> D. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
19	Toluene can be oxidized to benzonic acid by	A. KMnO4 (alk) B. K <sub>2</sub> Cr <sub>2</sub> O <sub>7 </sub> (acidic) C. Both D. None
20	When sulphur is boiled with $\mathrm{Na}_2\mathrm{SO}_3$ solution the compound formed is	A. Sodium sulphides B. Sodium sulphates C. Sodium persulphate D. Sodium thiosulphate