

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Calcium cyanamide on treatment with steam under pressure gives NH₃ and	A. Calcium carbonate B. Calcium hydroxide C. Calcium oxide D. Calcium oxide D. Calcium bicarbonate
2	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
3	The formula of nitre is	A. KNO ₃ B. NaNO ₃ C. NaCl D. Na ₂ CO ₃
4	The substance used as a smoke screen in warfare is	A. SiCl ₄ B. PH ₃ C. PCl ₅ D. Acetylene
5	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]
6	Propyne on hydrolysis in presence of H ₂ SO ₄ and HgSO ₄ gives	A. Acetaldehyde B. Actone C. Formaldehyde D. None
7	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. Electrolysus
8	A chemical reaction A B is said to be in equilibrium when	A. Complete conversion of A to B has taken place B. Conversion of A to B is only 50% complete C. Only 10% conversion of A to B has taken place D. The rate of transformation of A to B is just equal to rate of transformation of B to A in the system
9	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
10	Carbon atom holding halogen in aryl halides is	A. Sp ² -hybridesed B. Sp ³ -span style="font-size: 14.4444465637207px;">-hybridesed C. Sp -hybridesed D. Sp style="font-size: 14.44444465637207px;">Sp style="font-size: 14.4444465637207px;">Sp style="font-size: 14.4444465637207px;">Sp

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11	Which of the following has linear shape?	A. SP B. SP ² C. SP ³ D. None of the above
12	Formic acid is obtained when	A. Calcium acetate is heated with conc. H ₂ SO ₄ B. Calcium formate is heated with calcium acetate C. Glycerol is heated with oxalic acid D. Acetaldehyde is oxidized with K ₂ CrO ₇ and
13	Isopropyl alcohol on oxidation forms	A. Acetone B. Ether C. Ethylene D. Acetaldehyde
14	Dehydration of glycerol give	A. Propane B. Propene C. Acrolein D. Benzene
15	Which of the following fluorides does not exist?	A. NF ₅ B. PF ₅ C. AsF ₅ D. SbF ₅
16	Which of the following is directly related to Qualitative analysis?	A. Identification B. Separation C. Measurement D. Calculation
17	Oleum is	A. Castor oil B. Oil of vitriol C. Fuming of H ₂ SO ₄ D. None of them
18	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
19	Which of the following elements is most electronegative?	A. Oxygen B. Chlorine C. Nitrogen D. Fluorine
20	Which of the following compounds has the lowest anion to cation size ratio?	A. LiF B. NaF C. CsI D. CsF