

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	A cell constant is generally found by measuring the conductivity of aqueous solution of	A. BaCl ₂ B. KCl C. NaCl D. MgCl ₂
3	The rotation of two carbon atoms joined by double bond would happen only if	A. Pi bond is broken B. Sigma bond is broken C. Both bonds are broken D. None of above
4	Ascorbic acid is a chemical name of	A. Vitamin D B. Vitamin A C. Vitamin C D. Vitamin B ₆
5	Rusting of iron is catalysed by	A. Fe B. O ₂ C. Zn D. H ⁺
6	The reference calomel electrode is made from which of the following?	A. ZnCl ₂ B. CuSO ₄ C. Hg ₂ Cl ₂ D. HgCl ₂
7	Leblanc process is employed in the manufacture of	A. Baking soda B. Washing soda C. Potash D. Plaster of paris
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	According to MO Theory the species O ₂ ⁺ possesses	A. Bond order of 2.5 B. Three unpaired electrons C. Diamagnetic character D. Stability lower than O ₂
10	Magnesium keeps on burning in	A. N ₂ B. CO ₂ C. N ₂ O D. N ₂ as well as CO ₂
11	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
12	For the carbylamine reaction we need hot alc.KOH and	A. Any amine and chloroform B. Chloroform and Ag powder C. A primary amine and chloroform D. A mono alkyl amine and trichloromethane
13	The carbon atoms in calcium carbide are held by	A. Ionic bonds B. 2 sigma bonds C. 2 covalent one co-ordinate bond D. 2π and oneσ bond
		A. C₆H₆ +

14 In Friedal-Craft's alkylation besides AlCl_3 the other reactants are
A. NH_3
B. $\text{C}_6\text{H}_6 + \text{CH}_4$
C. $\text{C}_6\text{H}_6 + \text{CH}_3\text{Cl}$
D. $\text{C}_6\text{H}_6 + \text{CH}_3\text{COCl}$

15 With increasing principle quantum number the energy difference between adjacent energy levels in H atom
A. Decreases
B. Increases
C. Remains constant
D. Decreases for low value of Z and increases for higher value of Z.

16 Which of the following elements is most electronegative?
A. Oxygen
B. Chlorine
C. Nitrogen
D. Fluorine

17 Which is the most amphoteric?
A. Na_2O
B. MgO
C. Al_2O_3
D. CaO

18 The formula of nitre is
A. KNO_3
B. NaNO_3
C. NaCl
D. Na_2CO_3

19 The ratio of close packed atoms to tetrahedral holes in cubic close packing is
A. 1 : 1
B. 1 : 2
C. 1 : 3
D. 2 : 1

20 Propyne on hydrolysis in presence of H_2SO_4 and HgSO_4 gives
A. Acetaldehyde
B. Acetone
C. Formaldehyde
D. None