

MDCAT Chemistry Online Test

Sr	Questions	Answers Choice
1	A polymeric substance that is formed in the liquid state and then hardened to a rigid solid is called a	A. fibre B. plastic C. varnish D. polyamide resin
2	The number of molecules in 22.4 dm ³ of gas at 0°C and 1 atm are	A. 6.02×10 ⁽²³⁾ B. 6.02× 10 ⁽²⁵⁾ C. 6.02×10 ⁽²²⁾ D. 6.02×10 ⁽²¹⁾
3	Oxidation state of Mn' in KMnO ₄ . K ₂ MnO ₄ , MnO ₂ and MnSO ₄ is in the order	A. +7,+6,+2,+4 B. +6,+7,+2,+4 C. +7. +6.+4.+2 D. +4, +6, +7,+2
4	Steroids belong to the class	A. Waxes B. Glycosides C. Phospholipids D. Lipids
5	Coal contains percentage of sulphur:	A. 1-9% B. 5-9% C. 6-9% D. 7-9%
6	L-asparaginase is helpful in treatment of	A. skin disease B. blood cancer C. heart failure D. obstructive jaundice
7	The substance used in the soil to provide element.Which are essential for plant growth are known as:	A. manures B. fertilizers C. pesticides D. additive
8	Which of the following is not heterocyclic compound?	A. Naphthalene B. Furan C. Pyridine D. Pyrrole
9	Decomposition of H ₂ O is	A. Endothermic reaction B. Nuclear reaction C. Exothermic reaction D. Zero nuclear reaction
10	Addition of washing soda removes	A. Softness of water B. Temporary hardness of water C. Permanent hardness of water D. Hydrogen from water
11	If similar groups are attached to the same side, of C=C of alkene then it is	A. Cis isomer B. Trans isomer C. Tautomer D. All
12	Which gas produces air pollution?	A. oxides of sulphur B. oxides of carbon C. all of these
13	Total number of valence electrons in CH ₄	A. 8 B. 9 C. 10 D. 12
14	Which Henderson equation is not correct?	A. pH= pKa +log [salt/acid] B. pH = pKa - log [salt/acid] C. pH= pKa - log[acid/salt] D. pH = pKa + log [acid/salt]

$$D. \text{pKa} = \text{pH} - \log \left[\frac{\text{salt}}{\text{acid}} \right]$$

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| 15 | The conc. of dissolved molecular oxygen in water which act as the most important oxidizing agent ranges from: | A. 2ppm- 6ppm
B. 4ppm--8ppm
C. 2ppm--- 4ppm
D. 2ppm --3ppm |
| 16 | Paramagnetic behaviour is caused by the presence of | A. Unpaired electrons
B. Paired electrons
C. Paired protons
D. Paired electrons in an atom, molecule or ion |
| 17 | α and β Glucose differs in orientation of hydroxyl group around | A. C ₁
B. C ₂
C. C ₃
D. C ₄ |
| 18 | Optimum PH for enzyme pepsin is | A. 01
B. 2
C. 05
D. 6.5 |
| 19 | Potassium fertilizers are especially useful for: | A. Tobacco
B. Potato
C. Coffee
D. All of these |
| 20 | Which of the following is not a category of proteins based upon their function? | A. genetic
B. Regulatory
C. nucleo
D. structural |