

MDCAT Chemistry Online Test

Sr	Questions	Answers Choice
1	Tertiary alcohols produce with acidified KMnO_4 ,	A. Ketones B. Aldehydes C. Malonic acid D. Alkene
2	The potential of SHE is taken as zero which is a value	A. Reference B. Arbitrary C. Exact D. Experimental
3	Energy required to remove electron from an atom	A. Ionization potential B. Electronegativity C. Electropositivity D. Electron affinity
4	Which one of the following has polar covalent bonds but is overall non-polar molecule:	A. HF B. CO_2 C. CH_4 D. N_2
5	Which one of the following elements is most electropositive out of group I-A and II-A group?	A. K B. Mg C. Na D. Ca
6	The temperature in the incineration process has a range:	A. 900 to 1000 °C B. 650 to 1100 °C C. 950 to 1300 °C D. 500 to 900 °C
7	The dilute solution of _____ is called vinegar.	A. Formic acid B. Acetic acid C. Oxalic acid D. Benzoic acid
8	An acid that exists as a cyclic dimer in benzene and shows a molar mass of 120g/mol is	A. CH_3COOH B. HCOOH C. $\text{C}_2\text{H}_4\text{O}_4$ D. $\text{C}_3\text{H}_4\text{O}_4$
9	Setting process of cement is based on:	A. Hydrolysis B. Dehydration C. Hydration D. Oxidation

D. Oxidation

10	If a polymer has mass 63000, and the molar mass of repeating unit is 63 what is its degree of polymerization is	A. 10^{3} B. 10^{2} C. 10^{5} D. None of these
11	Which substances do not react immediately with bromine water:	A. ethane B. benzene C. ethene D. phenol
12	The amino linkage in Nylon -6,6 has the structure.	A. -NH ₂ B. -CO, O ₂ C. -NH-CO- D. -NH-O-CO-
13	D-block elements are also called	A. Non-typical transition element B. Outer transition elements C. Abnormal transition elements D. Inner transition
14	During esterification, the alcohol molecule acts as:	A. Oxidizing agent B. Electrophile C. Reducing agent D. Nucleophile
15	Smaller unit of biosphere is:	A. specie B. ecosystem C. plankton D. troposphere
16	Violet colour of [Ti(H ₂ O) ₄] ⁺ ion is due to.	A. Central metal ion B. Complex ion C. Water molecule D. Outer anion
17	The number of moles of CO ₂ which contain 8.00 gm of oxygen is.	A. 0.75 B. 1.50 C. 0.25 D. 1.00
18	The peptide bond is	A. Glycine B. Non-covalent bond C. Weak bond D. Responsible for secondary structure of protein
19	Solid waste of the city is disposed off by dumping in a landfill. Which of the following gas is produced in the landfill	A. Oxygen B. Chlorine C. Hydrogen sulphide D. Hydrogen chloride gas
20	Plastics are a pollution problem because many plastics:	A. Are made from petroleum B. Are very inflammable C. Burn to produce toxic fumes D. Decompose to produce toxic products