

MDCAT Chemistry Chapter 13 Fundamental principles of organic chemistry Online Test

Sr	Questions	Answers Choice
1	C-H bond length in the benzene is	A. 0.99Å° B. 1.09Å° C. 1.12Å° D. 1.34Å°
2	Ethylene polymerizes at 100 atm pressure and 400 °C to give	A. Polybenzene B. Polypropylene C. Polyalcohol D. Polyethylene
3	A compound that has a nucleophilic carbon?	A. C ₂ H ₂ B. C ₂ H ₄ C. C ₃ H ₈ D. C ₆ H ₆
4	Benzene reacts with Ethyl chloride in presence of AlCl ₃ to give	A. Benzalchloride B. Benzyl chloride C. Ethyl benzene D. Benzotrchloride
5	Dehydrohalogenation of alkyl halides happens in the presence of	A. Pd B. Ni C. Zn D. KOH/alcohol
6	Benzene has pi electron	A. 2 B. 4 C. 6 D. 8
7	Glyoxal molecule has?	A. two carbonyl groups B. One aldehydic and one carbonyl group C. Two aldehydic groups D. Two carboxyl group
8	Which one of the following is a powerful electrophile used to attack on the electrons of benzene ring?	A. FeCl ₂ B. Cl ⁺ C. FeCl ₄ ⁻ D. Cl ₂
9	Which group activates the benzene ring	A. -COOH B. -COR C. -CHO D. -OH
10	2-Propenol, on rearrangement, yields	A. Propanal B. Propanone C. 2-propano D. Both A and B
11	Acetylide can give back ethyne upon treatment with	A. water B. strong base C. dil. Acid D. weak base
12	Hydration of ethene is an example of	A. Electrophilic addition B. Electrophilic substitution C. Nucleophilic addition D. Nucleophilic substitution
13	Ethane when completely halogenated in excess of chlorine can form	A. Hexachloroethane B. Dichloroethane C. Pentachloroethane D. 1.1.2.2-terachloroethane
14	Ethyl and methyl groups are equidistant in a chain, the preference is given to?	A. Ethyl B. methyl C. both ethyl and methyl D. methyl mostly
15	Substituted phenyl group are called	A. Arene groups B. Alkyl groups C. Aryl groups D. Arylene groups

D. Acyl groups

16	The substitution of a '-H' by '-NO ₂ ' group in benzene is called	A. Nitration B. Sulphonation C. Ammunolusis D. Reduction of benzene
17	Which of the following compound reacts slower than benzene in the electrophilic substitution.	A. Phenol B. Nitrobenzene C. Toluene D. Aniline
18	Ethene can give all of the following reactions except	A. Addition B. Free radical substitution C. Hydrohalogenation D. Hydration
19	2,5-dimethyl-1-hexene has	A. Two sp ² hybridized carbons B. Six sp ² hybrid carbons C. Two double bonds D. Four pi electrons
20	The origin of acidic nature of alkyne is?	A. small size of C B. Small size of H C. polarity of triple bond D. sp hybridization
