

## ECAT Chemistry Chapter 18 Fundamental Principles of Organic Chemistry

Sr	Questions	Answers Choice
1	General formula of carbocyclic acids is:	A. RCOH B. RCOR C. RCOOR D. R-OH
2	Organic compounds generally react at rates	A. Slow B. Fast C. Moderate D. None of them
3	Sp <sup>3</sup> hybridization occurs when carbon is bound to	A. Four other atoms B. Three other atoms C. Two other atoms D. One other atoms
4	Which is not the poplar reaction	
5	The formula of esters is	
6	Compounds having same molecular formula but different structures are said to be	A. Monomers B. Isomers C. Metamers D. Tautomers
7	Question Image	A. Condensation B. Dehydration C. Dehydrogenation D. Hydrogenation
8	Question Image	A. 3 B. 4 C. 5 D. 2
9	Which set of hybrid orbitals has planar triangular shape	A. sp <sup>3</sup> B. sp C. sp <sup>2</sup> D. dsp <sup>2</sup>
10	Question Image	A. 1 B. 2 C. 3 D. 4
11	In ${\sf sp}^2$ type hybridization the three equivalent ${\sf sp}^2$ orbitals lie in the same plane and at angle of	A. 0 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> B. 60 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> C. 120 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> D. 180 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span>
12	Quality of fuel is judged from its octane number. The best fuels are	A. Straight chain hydrocarbons     B. Branched chain hydrocarbons     C. Cyclic compounds     D. Compounds containing benzene ring
13	Normal by product of cracking is	A. Ethane B. Butane C. Benzene D. All of them
14	The major components of coal gas are	A. Hydrogen and methane B. Ethane and carbon monoxide C. Nitrogen and ethane D. Ethane and carbon dioxide
		A. paraffin

15	Unsaturated hydrocarbon containing a double bond are called	B. Alkanes C. Olefins D. Acetylene
16	Geographical survey of Pakistan estimates about billion tons of coal in Pakistan:	A. 182 B. 183 C. 184 D. 185
17	The rotation of two carbon atoms joined by double bond would happened only if	A. Pi bond is broken B. Sigma bond is broken C. Both bonds are broken D. None of above
18	Peat before conversion to bituminous coal is converted to	A. Lignite B. Anthracite C. Asphalt D. None
19	Hybridzation explain the of orbitals	<ul><li>A. Type of bonding</li><li>B. Shapes</li><li>C. Shape and type of bonding</li><li>D. None of above</li></ul>
20	Which is not a fossil fuel	A. Petroleum B. Coal C. Natural gas D. None of them