

## ECAT Chemistry Chapter 18 Fundamental Principles of Organic Chemistry

Sr	Questions	Answers Choice
1	The use of tetra ethyl lead in petrol as an efficient antiknock agent is being discouraged. Which reason is correct	A. It is costly B. It damages the engine C. Pb is difficult to obtain in bulk quantities D. The combustion product, lead, causes air pollutions
2	The general formula of saturated alicyclic hydrocarbons is:	A. $C_nH_n$ B. $C_nH_{2n}$ C. $C_nH_{2n+2}$ D. $C_nH_{2n-1}$
3	Products of coal is:	A. Peat B. Lignite C. Bituminous coal D. All above
4	Which one of the followings is a heterocyclic compound	A. Cyclohexanol B. Phenol C. Pyridine D. Anthracene
5	Coal is used to bake bricks in lime kiln:	A. 40% B. 60% C. 80% D. None of these
6	The functional group isomer of dimethylether is	A. Ethyl alcohol B. Propyl alcohol C. Diethyl ether D. Butyl alcohol
7	The formula of esters is	
8	Organic compounds resemble to those of inorganic compounds having same	A. Ionic properties B. Carbon forming long chain or rings C. Chemical forces D. Isomerism
9	Which is not a fossil fuel	A. Petroleum B. Coal C. Natural gas D. None of them
10	Identify the heterocyclic compound	A. Toluene B. Pyridine C. Butanoic acid D. Propenol
11	Which of the following is not a hydrocarbon	A. Butane B. Methyl benzene C. Acetylene D. Glucose
12	Replacement of hydrogen atom by - SO <sub>3</sub> H group in benzene is called	A. Nitration B. Alkylation C. Sulphonation D. Acylation
13	In sp <sup>2</sup> type hybridization the three equivalent sp <sup>2</sup> orbitals lie in the same plane and at angle of	A. 0° B. 60° C. 120° D. 180°
14	The chemist who synthesized urea from ammonium cyanate was	A. Berzelius B. Kolbe

		<p>C. Wohler</p> <p>D. Lavoisier</p>
15	Rates of organic reactions are	<p>A. Fast</p> <p>B. Very fast</p> <p>C. Slow</p> <p>D. Non-reactive</p>
16	Coal heated in the absence of air of about 500 - 1000°C is converted to	<p>A. Coke</p> <p>B. Coal gas</p> <p>C. Coal tar</p> <p>D. All above</p>
17	On passing ethane into concentrated sulphuric acid the intermediate compound formed on hydrolysis with boiling water gives	<p>A. Methyl alcohol</p> <p>B. Ethyl alcohol</p> <p>C. Ethyl hydrogen sulphate</p> <p>D. Methyl hydrogen sulphate</p>
18	type of hybridization in $\text{CH}\equiv\text{CH}$ is:	<p>A. <math>sp</math></p> <p>B. <math>sp^2</math></p> <p>C. <math>sp^3</math></p> <p>D. <math>dsp^2</math></p>
19	The compounds which have any atom other than Carbon atom, in rings are called as	<p>A. Monocyclic</p> <p>B. Heterocyclic</p> <p>C. Homocyclic</p> <p>D. None of the above</p>
20	When a carbon atom forms single bonds with other carbon atoms, these hybrid orbitals overlap with the orbitals of hydrogen to form four bonds which are	<p>A. Three sigma and one <math>P</math></p> <p>B. Two sigma and two <math>P</math></p> <p>C. One sigma and three <math>P</math></p> <p>D. sigma</p>