

## ECAT Chemistry Chapter 18 Fundamental Principles of Organic Chemistry

Sr	Questions	Answers Choice
1	Question Image	A. 1, 5-pentadiene B. Penta-1, 4-diene C. 1, 1-pentadiene D. 1, 4-pentene
2	Which of the following has linear shape?	A. SP B. SP <sup>2</sup> C. SP <sup>3</sup> D. None of the above
3	The chemist who synthesized urea from ammonium cyanate was	A. Berzelius B. Kolbe C. Wholer D. Lavoisier
4	Tetraethyl lead causes disease:	A. Typhoid B. Respiratory C. Stomach D. Muscular
5	The structure of benzene is	A. Hexagonal B. Pyramidal C. Square planer D. Tetrahedral
6	Organic compounds are soluble in all except	A. Benzene B. Petroleum C. Ether D. Water
7	Which is a mixture of low boiling hydrocarbon	A. Natural gas B. Petroleum C. Wood D. Graphite
8	Coal heated in the absence of air of about 500 - 1000°C is converted to	A. Coke B. Coal gas C. Coal tar D. All above
9	Functional group of ketones is:	A. ---CHO B. ---CO--- C. ---C<span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">>≡ N</span> D. ---COOH
10	1-butene an 2-butene are an example of	A. Chian isomerism B. Positional isomerism C. Metamerism D. Functional group isomerism
11	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<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	Question Image	A. 0 B. 1 C. 2 D. 3
13	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

14 Carboxylic acid, ester, amide and amino groups are shown. Which is the correct description of these functional groups

15 Number of isomers of butane are:  
A. One  
B. Two  
C. Three  
D. Four

16 The open chain compounds are also called  
A. Aliphatic  
B. Alicyclic  
C. Aromatic  
D. Both a and b

17 How many structural acid cis-trans isomers are there for dichloropropene,  $C_3H_4Cl_2$   
A. 3  
B. 5  
C. 6  
D. 7

18 Which of the following is an aromatic compound  
A. Propanol  
B. Cyclohexane  
C. Acetone  
D. Benzene

19 Ether show the phenomenon of :  
A. Position isomerism  
B. Functional group isomerism  
C. Metamerism  
D. Cis-trans isomerism

20 Which set of hybrid orbitals has planar triangle shape?  
A.  $sp^{3}$   
B.  $sp$   
C.  $sp^{2}$   
D.  $dsp^{2}$