

ECAT Chemistry Chapter 18 Fundamental Principles of Organic Chemistry

Sr	Questions	Answers Choice
1	Compounds having the same molecular formula, but different functional groups show	A. Metamerism B. Position isomerism C. Chain isomerism D. Functional group isomerism
2	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	A. Three sigma and one P _{3p} B. Two sigma and two P _{3p} C. One sigma and three P _{3p} D. sigma
3	Which of the following has linear shape?	A. SP B. SP ² C. SP ³ D. None of the above
4	Fossil fuels consist of :	A. Coal B. Natural gas C. Petroleum D. All of these
5	The active part in a molecule is called	A. Hetroatom B. Functional group C. Chemical bond D. Ion
6	Products of coal is:	A. Peat B. Lignite C. Bituminous coal D. All above
7	Which gasoline is better?	A. Of low boiling point B. Of low molecular mass C. Of high octane D. All of these
8	Which of the following is complex?	A. CaSO ₄ . 0.5H ₂ O B. (C ₆ H ₁₀ O ₅) _n C. C ₆ H ₁₂ O ₆ D. CH ₄
9	The next homologue of C ₁₀ H ₂₂ will be	A. C ₉ H ₂₀ B. C ₁₂ H ₂₆ C. C ₁₁ H ₂₄ D. C ₁₃ H ₂₈
10	Compounds having same molecular formula but different structures are said to be	A. Monomers B. Isomers C. Metamers D. Tautomers
11	At present oil refineries in Pakistan are:	A. One B. Two C. Three D. Four
12	Alkanes normally have _____ hybridization	A. Sp B. Sp ² C. Sp ³ D. d sp ³
13	The process in which one s and two p orbitals mix up with each other is called	A. Sp-hybridization B. Sp ² -hybridization C. Sp ³ -hybridization D. Dsp ² -hybridization
14	Question Image	A. 3 B. 4 C. 5 D. 2

15 In sp^2 type hybridization the three equivalent sp^2 orbitals lie in the same plane and at angle of
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B. 60
C. 120
D. 180

16 Which of the following expressions show a heterolytic bond fission
A. $CH₄$
B. $C₂H₄$
C. $C₂H₂$
D. None of the above

17 In which molecule carbon atom is sp^2 hybridized
A. Chain isomerism
B. Positional isomerism
C. Meta merism
D. Functional group isomerism

18 n-butane and iso butane are an example of
A. 0
B. 1
C. 2
D. 3

19 Question Image
A. Propanol
B. Cyclohexane
C. Acetone
D. Benzene

20 Which of the following is an aromatic compound