

Chemistry



9th Class

Sindh Board Notes

Chapter # 17

Organic Chemistry



Solved MCQs

پنجاب، سندھ، بلوچستان، خیبر پختونخوا، بورڈز کے تمام نوٹس سابقہ پیپرز، اس ویب سائٹ سے فری ڈاؤن لوڈ کریں۔

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→ ORGANIC CHEMISTRY

- The branch of chemistry, which deals with the compounds of carbon is called:**
 - Physical chemistry
 - Inorganic chemistry
 - Organic chemistry
 - Analytical chemistry
- The first synthetic organic compound is:**
 - Methane
 - Ethane
 - Urea
 - Acetic acid
- Which is pure carbon:**
 - Coaltar
 - Coal gas
 - Coke
 - None of these
- Residue left after fractional distillation of coaltar:**
 - Coke
 - Matte
 - Pitch
 - None of these
- Natural gas mainly consists of:**
 - Methane
 - Ethane
 - Propane
 - Butane
- Fraction of petroleum containing 10-13 carbons, and its boiling range 150°C-230°C:**
 - Natural gas
 - Gasoline
 - Kerosene
 - Light oil
- Fraction of petroleum containing $C_{21} - C_{40}$ boiling range is above 400°C, is:**
 - Light oil
 - Heavy oil
 - Paraffin wax
 - Bitumen
- The oils that have been carefully purified and decolourized, act as mild laxative are:**
 - Gasoline
 - Kerosene
 - Light oil
 - Heavy oil
- The process in which the octane rating of gasoline can be increased, is called:**
 - Cracking
 - Refining
 - Reforming
 - isomerism

10. A series of compounds, in which each member differs from the preceding one by a constant ratio of ($>CH_2$) methylene group, is called:
- a. Monologous series
b. Homologous series
c. Isomerism
d. None of these
11. Isomerism in which the compounds possess the same molecular formula but different arrangement of carbon atoms in the hydrocarbon Chain is called:
- a. Chain isomerism
b. Functional isomerism
c. Position isomerism
d. Metamerism
12. A process that breaks large molecules into smaller one, is called:
- a. Refining
b. Reforming
c. Cracking
d. None of these
13. Compounds which contain only carbon and hydrogen elements, are called:
- a. carbohydrates
b. Hydrocarbons
c. Halides
d. None of these
14. The hydrocarbons which contain one or more double or triple bonds, are called:
- a. Saturated hydrocarbons
b. Unsaturated hydrocarbons
c. Paraffin
d. Halogens
15. The first member of alkene series is:
- a. Methane
b. Ethane
c. Ethene
d. Ethyne
16. The hydrocarbons in which carbon atoms are arranged in rings, are called:
- a. Aliphatic
b. Aromatic
c. Ali cyclic
d. None of these
17. The quality of petrol is measured by:
- a. Cracking
b. Reforming
c. Octane number
d. Decane number
18. General formula for alkane is:
- a. C_nH_{2n+2}
b. C_nH_{2n}
c. C_nH_{2n-2}
d. C_nH_{2n+1}
19. The first member of Alkyne series is:
- a. Methane
b. Ethane
c. Ethene
d. Acetylene

20. The number of isomers in butane is:
- | | |
|------|--------|
| a. 1 | b. ✓ 2 |
| c. 3 | d. 4 |
21. An atom or group of atoms present in a molecule and is responsible for chemical behaviour is called:
- | | |
|-----------------------|------------------|
| a. Alkyl group | b. Alkenyl group |
| c. ✓ Functional group | d. Aryl group |
22. Iso-butane possesses:
- | | |
|-----------------------|-------------------------|
| a. Position isomerism | b. Functional isomerism |
| c. Metamerism | d. ✓ Chain isomerism |
23. Preparation of ethane from ethyl Alcohol is an example of:
- | | |
|-------------------|-----------------|
| a. ✓ Dehydration | b. Hydration |
| c. Dehalogenation | d. Halogenation |
24. The Hydrocarbons which possess double bond in their molecules are called:
- | | |
|------------|--------------|
| a. Alkanes | b. ✓ Alkenes |
| c. Alkynes | d. Paraffins |
25. The alkanes are also called:
- | | |
|--------------|---------------|
| a. Olefins | b. ✓ Alkynes |
| c. Paraffins | d. Acetylenes |
26. Which is the functional group of alcohols:
- | | |
|--------|-----------|
| a. -X | b. -COOH |
| c. -OH | d. ✓ >C-O |
27. Which of the following molecules is alkane:
- | | |
|----------------|------------------|
| a. C_5H_8 | b. C_5H_{10} |
| c. C_5H_{12} | d. ✓ C_5H_{14} |
28. Methane is also known is:
- | | |
|-------------|----------------|
| a. Oil gas | b. Kerosene |
| c. Gasoline | d. ✓ Marsh gas |
29. Range of carbon atoms per molecule for gasoline or petrol:
- | | |
|----------------------|----------------------|
| a. ✓ $C_6 - C_{10}$ | b. $C_1 - C_4$ |
| c. $C_{11} - C_{18}$ | d. $C_{20} - C_{40}$ |
30. Range of carbon atoms per molecule for kerosene oil is:
- | | |
|----------------------|------------------------|
| a. $C_{20} - C_{40}$ | b. ✓ $C_{11} - C_{18}$ |
| c. $C_5 - C_6$ | d. $C_1 - C_4$ |

31. The formula of propane is:

- a. C_2H_6
- b. ✓ C_6H_{14}
- c. C_3H_8
- d. $C_{10}H_{22}$

32. If we heat anhydrous Sodium Acetate with Soda Lime then _____ is produced

- a. Ethane
- b. Methane
- c. ✓ Propane
- d. Butane

33. _____ is prepared by dehydration of Ethyl Alcohol

- a. Methane
- b. Acetylene
- c. Ethene
- d. ✓ Propane

34. _____ is conveniently prepared by the action of water on calcium carbide.

- a. ✓ Ethane
- b. Ethene
- c. Butane
- d. Ethyne

35. _____ is used as illuminant

- a. Acetylene
- b. ✓ Butyne
- c. Ethene
- d. Methane

36. _____ has pleasant smell

- a. Methane
- b. ✓ Ethylene (Ethene)
- c. Acetylene
- d. Pentene

37. Carbide is heated with water then _____ is

- a. Propane
- b. Acetylene
- c. ✓ Methane
- d. Ethene

38. _____ rating is improved by the process of Cracking

- a. Butane
- b. Propane
- c. Ethene
- d. ✓ Octane

39. The formula of propane is _____

- a. C_2H_6
- b. C_6H_{14}
- c. ✓ C_3H_8
- d. $C_{10}H_{18}$

40. The formula of ethene is _____

- a. C_3H_6
- b. C_4H_8
- c. C_6H_{12}
- d. ✓ C_2H_4

41. The formula of ethyne is _____

- a. ✓ C_2H_2
- b. C_6H_{10}
- c. C_3H_{14}
- d. $C_{10}H_{18}$

42. A solution is 5% m/v, and volume of solution is 1000 cm^3 then mass of solute is
- | | |
|-----------|----------|
| a. 5 g | b. 50 g |
| c. 5000 g | d. 500 g |
43. Ethene containing 6 carbon atoms in
- | | |
|------------|-----------|
| a. hexene | b. hexyne |
| c. heptyne | d. butene |

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