



CHEMISTRY

BOOKS - JEEVITH PUBLICATIONS CHEMISTRY (KANNADA ENGLISH)

HYDROCARBONS

One Mark Questions And Answers

1. What are hydrocarbons?



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2. What are alkanes?



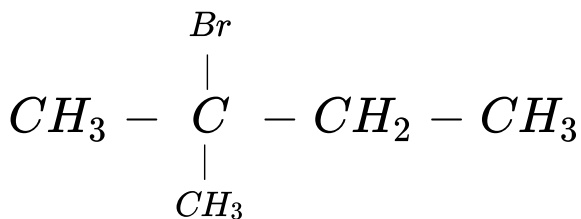
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3. Given the general formula of alkanes.



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4. Write the IUPAC name of



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5. Write the structure of 2 - Methyl pentane



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6. Write the possible isomers of Butane



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7. What is conformation in alkanes



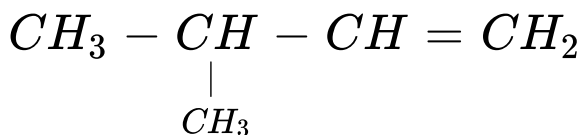
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8. What type of structural isomerism is shown by alkanes?



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9. Write the IUPAC name of



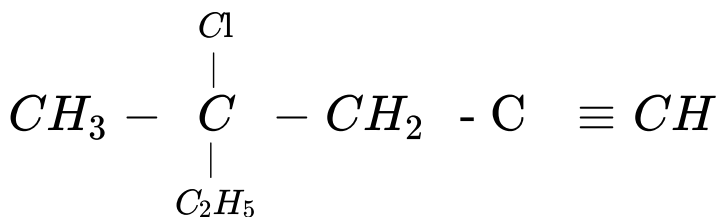
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10. What is Baeyer's reagent?



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11. Write the IUPAC name of



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12. Name the scientist who first isolated benzene.



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13. Write the structure of dimethyl acetylene.



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14. How to prepare calcium carbide?



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15. Define Aromatic hydrocarbons.



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16. Write the IUPAC name of toluene



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17. Write the structure and IUPAC name of O-xylene.



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18. Write the IUPAC name of Benzene



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19. What is aromaticity



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20. What are the two sources from which carcinogens enters into atmosphere during partial comustions.



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21. Give the general formula of alkenes.



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22. What is the state of hybridisation of carbon atoms in alkenes?



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23. How does carcinogen are oxidized in human body?



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24. What is Lindlar's catalyst?



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25. What are the polynuclear aromatic hydrocarbons obtained from coal tar?



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26. Name the reagent which brings about dehydrohalogenation.



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27. What is the major product formed when propene reacts with hydrogen bromide?



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28. Name the product formed when HBr reacts with 2 - methyl propene.



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29. Give the example of vicinal dihalide.



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30. Give the example of geminal dihalide.



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31. ALKYNE



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32. Why are alkenes called olefins?



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33. Name the electrophiles in the following reactions. (i) Chlorination (ii) Nitration (iii)

Sulphonation (iv) Friedel craft's methylation.



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34. Write the Grometrical isomers of $\text{CHBr} = \text{CHBr}$.



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35. Which catalyst is most effective even in the polymerization of ethene to polythene?



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36. What is the composition of Zeigler Natta Catalyst?



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37. Name one Carcinogenic compound.



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38. Name the compound formed when heptane is subjected to aromatisation.



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39. What is the cause of Geometrical Isomerism ?



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40. What is the trade name of Benzene Hexachloride?



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Two Marks Questions And Answers

1. What is the action of ethene with bromine in carbon tetra chloride?



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2. What is the action of hydrogen halide on alkene?

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3. How do you obtain an alkene from alkyne?

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4. How do you convert ethene to ethane?

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5. How is propene obtained from propyl chloride?



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6. What is Wurtz reaction? Give example.



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7. Write the possible isomers of Pentane





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8. How is alkane prepared from Kolbe's electrolytic method?



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9. What is Pyrolysis? Give example .



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10. What is Aromatisation? Give example.



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11. How to prepare ethene from alcohol?



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12. Explain catalytic hydrogenation.



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13. Explain a test for unsaturation.



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14. Explain oxidation of Ethene.



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15. How does ozonolysis takes place in ethene?



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16. What happens when propene undergoes ozonolysis?



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17. How to prepare alkyne from calcium carbide?



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18. Explain dehydrohalogenation of dihalides.



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19. Explain acidic character of ethyne.



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20. Explain addition reaction of hydrogen in alkynes.



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21. Explain addition reaction of hydrogen in alkynes.



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22. What happens when HBr is added to ethyne?



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23. Write the reaction to convert propyne to 2,2 - dibromopropane.



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24. Explain hydration of alkynes.



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25. Explain Linear polymerisation of alkynes.



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26. How to prepare benzene from ethyne?



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27. Benzene is stable. Why?



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28. Show that presence of three double bonds in benzene.



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29. Show that six hydrogen atoms in benzene are identical.



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30. Show that benzene is aromatic by using Huckel's rule.



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31. How to convert benzene into hexachlorobenzene?



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32. What happens when benzene is added to hydrogen.



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Three Marks Questions And Answers

1. Explain the action of chlorine on methane in the presence of sunlight.



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2. Explain the mechanism of chlorination of methane.



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3. Explain the mechanism of addition of hydrogen bromide to propene.



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4. How is the manufacture of LDPE & HDPE?



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5. Explain controlled oxidation of methane to methanol and formaldehyde.



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6. How to prepare alkene by hydrogenation of 2-butyne?



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7. Explain dehydrohalogenation of a alkyl halide.



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8. Discuss the structural elucidation of benzene.



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9. Explain the mechanism of halogenation or chlorination of benzene.



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10. Explain the mechanism of nitration of benzene .



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11. Explain the mechanism of sulphonation of benzene?



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12. Explain the mechanism of Friedel craft alkylation of benzene.



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13. Explain Saytzeff's rule with an example.



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14. Explain peroxide effect.



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15. What happens when water is added to ethene and propene?



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16. Discuss isomerism in alkynes.



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17. Explain the structure of triple bond of ethynes.



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18. Explain resonance and stability of benzene.



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19. What are the conditions for a molecule to aromatic?



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20. Using Hückel's rule, show that cyclopentadienyl anion and naphthalene is aromatic.



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21. Write Friedel Craft acylation of benzene using CH_3COCl and $(CH_3CO)_2O$.



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22. Explain the mechanism of Friedel craft's acylation reaction.



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23. Explain ortho and para directing group influencing in benzene.



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24. Explain meta directing groups influencing in benzene.



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25. Compare stability and dihedral angle of ethane using sawhorse and newman projection.



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