



CHEMISTRY

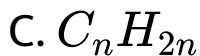
NCERT - NCERT CHEMISTRY (GUJRATI)

HYDROCARBONS

Questions A Choose The Correct Answer

1. Alkanes can be represented by the formula





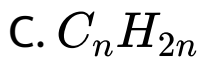
Answer:



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2. Alkenes are represented by the formula



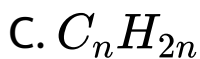


Answer:



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3. Alkynes are represented by the formula





Answer:



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4. The type of substitution reaction that takes place when methane is treated with Cl_2 in presence of light

A. ionic

B. nucleophilic

C. electrophilic

D. radial

Answer:



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5. When n-hexane is passed over hot alumina supported chromium, vanadium or molybdenum oxide the compound formed is

A. cyclopentaene

B. toluene

C. cyclohexane

D. benzene

Answer:



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6. When the identical groups are on the same or opposite sides of the bonds in alkenes the isomerism is called as

A. chain isomerism

B. geometrical isomerism

C. position isomerism

D. optical isomerism

Answer:



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7. Diels-Alder reaction is the reaction between

A. diene and dienophile

B. electrophile and nucleophile

C. oxidant and reductant

D. none.

Answer:



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8. Unsaturated compounds with two double bonds are called as

A. diene

B. olefins

C. alkadiene

D. paraffins.

Answer:



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9. The hybridization of carbons in ethylene is

A. sp^2

B. sp^3

C. sp

D. dsp^2

Answer:



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10. Alcohols can be dehydrated to olefins using

A. H_2SO_4

B. Pd

C. $SOCl_2$

D. Zn / Hg

Answer:



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11. When alkyl halides are treated with alcoholic KOH, the products are

A. olefins

B. olefins

C. alkanes

D. aldehydes

Answer:



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12. Witting reaction is used to prepare

A. an alkene

B. an alkyne

C. an alkane

D. none of the above

Answer:



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13. Electrolysis of potassium succinate gives

A. ethylene

B. acetylene

C. ethane

D. none of the above

Answer:



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Questions B Fill Up The Blanks

1. In alkanes, the carbon atoms are connected by _____ bonds.



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2. Treatment of 1,2-dibromopropane with zinc and ethanol gives _____.



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3. Cis But-2-ene is an _____ isomer.



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4. Addition of HCl to an olefin follows _____ rule.



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5. An alkene reacts with ozone to form



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6. CaC_2 on hydrolysis gives



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7. Ethylenedibromide on treatment with KOH
gives



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8. Electrolysis of sodium maleate gives



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Questions C Explain Briefly On The Following

1. Mention any five chemical properties of alkanes.



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2. Discuss the general methods of preparing alkanes.



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3. What is hydroboration?



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4. What is ozonolysis?



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5. What is polymerisation?



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6. How is ethylene hydrated?



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7. What is the action of ozone on acetylene.



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8. What happens when acetylene is passed through red-hot tube?



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