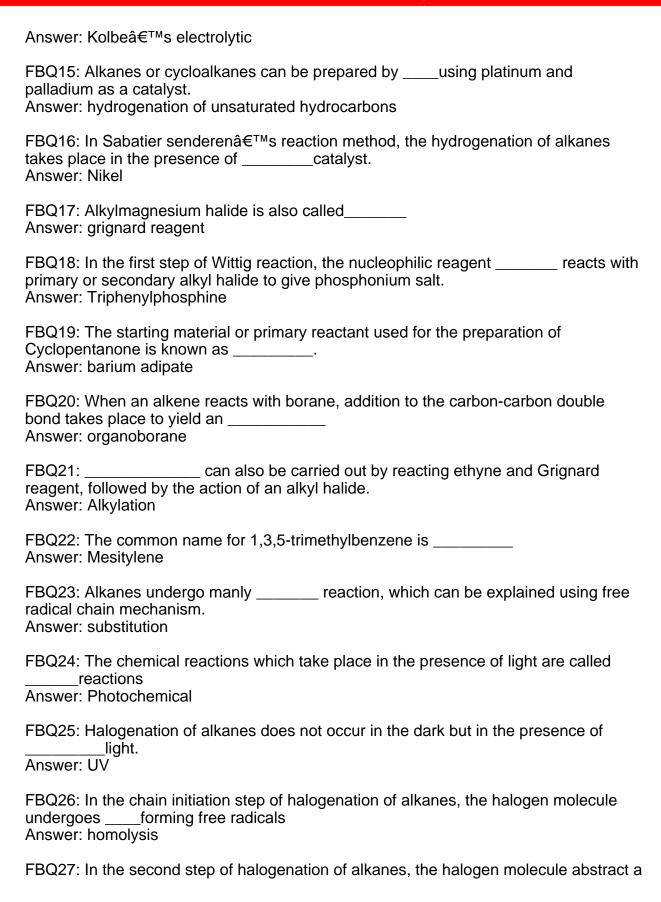
Answer: alkenes
FBQ2: The use of as octane number enhancer is being curtailed for environmental reasons. Answer: Tetraethyllead
FBQ3: In, fuel having a lower octane number is much more useful than thos having a higher octane number. Answer: diesel engine
FBQ4: Quality of diesel fuel is expressed in terms of a parameter called Answer: Cetane number
FBQ5:is given a cetane number 100 Answer: Hexadecane
FBQ6: Good quality diesel fuel required for modern diesel engine has cetane number greater than Answer: 45
FBQ7: Boiling point of a covalent substance depends upon the forces. Answer: intermolecular
FBQ8: The function of hydroxide ion during dehydrohalogenation of alkyl halides is to abstract from the carbon atom next to the halogen bearing carbon. Answer: hydrogen
FBQ9: The in a carbon chain with an odd number of carbon atoms lies on the same side whereas those in a carbon chain with an even number lie on the opposite side. Answer: Terminal carbon atoms
FBQ10: Dehydration of alcohols which produce alkenes requires the presence of Answer: acid and heat
FBQ11: George Witting reported a method of synthesising alkenes from Answer: Carbonyl compounds
FBQ12: A catalyst mixed with a selective inhibiting agent is called a catalyst Answer: poisoned
FBQ13: The joining of the two alkyl groups from two molecules of alkyl halide with the lost of halogen occur in which method of preparation of alkanesAnswer: wurtz
FBQ14: Preparation of alkanes from carboxylic acid is achieved by



hydrogen atom from the alkane molecule thereby producing an Answer: alkyl radical
FBQ28: Alkenes can be classified on the basis of the number of present in the molecules Answer: double bonds
FBQ29: Hydrocarbons containing two double bonds are called Answer: diolefins
FBQ30: In the allene molecule the central carbon atom is sp hybridized while the terminal carbon atom is hybridized Answer: sp2
FBQ31: An alcohol is converted to alkene by Answer: dehydration
FBQ32: In wittig reaction alkenes are synthesize fromcompounds Answer: carbonyl
FBQ33: Alkenes are readily hydroxylated to form a dihydroxy compound (diol) appropriately known as Answer: glycols
FBQ34: A reaction in which the double bond is completely broken and alkene molecule is converted into two smaller molecules is called Answer: ozonolysis
FBQ35: Alkynes are divided into two, namely Answer: Terminal and internal alkynes
MCQ1: Choose the correct option that best indicate the hybrid orbitals type, bond length and bond angle for methane. Answer: SP2, 134 pm and 1200
MCQ2: Choose the correct option that best indicate the hybrid orbitals type, bond length and bond angle for acetylene? Answer: SP, 120 pm and 180o
MCQ3: Grouping organic compounds based on their functional groups makes it easier to understand their? Answer: Chemical properties only
MCQ4: -OH is a functional group for which organic compound? Answer: Alcohol
MCQ5: What is the functional group of aldehyde? Answer: â"€CHO

MCQ6: What is the functional group of esters?

Answer: RCOOR'

MCQ7: A functional group can be defined as?

Answer: An atom or group of atoms in a molecule which exhibit a characteristic

chemical properties

MCQ8: The hydrocarbons are broadly classified into three namely____?

Answer: Aliphatic, alicyclic and aromatic

MCQ9: Benzene is an example of which type of hydrocarbon?

Answer: Aromatic hydrocarbon

MCQ10: When a compound has a carbon-nitrogen single bond it is called?

Answer: amine

MCQ11: When a compound has carbon-nitrogen double bond it is called?

Answer: Imine

MCQ12: When a compound has carbon-nitrogen triple bond it is called?

Answer: Nitrile

MCQ13: Amines are appropriately classified bases on the number of alkyl group

attached to the nitrogen atom as:

Answer: Primary, secondary and tertiary amines

MCQ14: An alcohol in which the oxygen atom is replaced by a sulphur atom is called?

Answer: Thiol

MCQ15: An aromatic compound which contained side chain hydroxyl group is called?

Answer: Phenol

MCQ16: The earliest nomenclature of the organic compounds was based on?

Answer: Their origin or properties

MCQ17: What are isomers?

Answer: Are compounds having the same molecular formula but different structural

presentation

MCQ18: n-butane means? Answer: Straight chain butane

MCQ19: Iso-butane means? Answer: Branched butane

MCQ20: The number of possible isomers of an alkane increases with increase in

number of carbon atoms. True or false.

Answer: True

MCQ21. A member of a homologue series must poses a similar structure but differ in he repeating unit. Answer: â"€CH2â"€
MCQ22: â€~Undecane' is a straight chain alkane containing how many carbon atoms? Answer: 11
MCQ23: In reaction, a conjugated diene is treated with an unsaturated compound called dienophile to yield a cyclic system. Answer: Diels-Alder
MCQ24: The terminal alkynes on hydroboration give Answer: aldehydes
MCQ25: Reactions that lead to the attachment of alkyl group to a molecular fragment are called Answer: Alkylation reaction
MCQ26: involves elimination of the halogen atom together with a hydrogen atom from an adjacent carbon atom. Answer: Dehydrohalogenation
MCQ27: Alkyl halides are converted into alkenes by, by treating with a strong base. Answer: dehydrogenation
MCQ28: Rapid decolourization of bromine solution serves as a test for the presence of he in a compound. Answer: C=C
MCQ29: When alkene reacts with borane, addition to the C=C takes place to yield organoborane a compound with a carbon-boron bond, the reaction is known as
Answer: hydroboration
MCQ30: In compounds, the molecules are formed by the sharing of electron pairs between the constituent atoms. Answer: covalent
MCQ31: Which of these compounds have a benzene ring with a methyl group at position one? Answer: Toluene
MCQ32: A benzene ring with a methyl group at position one and nitro group at position hree is? Answer: pâ^'nitrotoluene
MCQ33: Which of these theoretical concepts enables realistic modelling of molecular

structure? Answer: hybridization	
MCQ34: is how a sigma (Î') bond is formed. Answer: edge-on overlap of pure s and p orbitals	
MCQ35: The relationship between bond length and bond order is	-