

Class - U.G. Semester - IV

Subject - Chemistry (MJC-IV)

Paper - MJC-IV (T)

Topic - Alcohol

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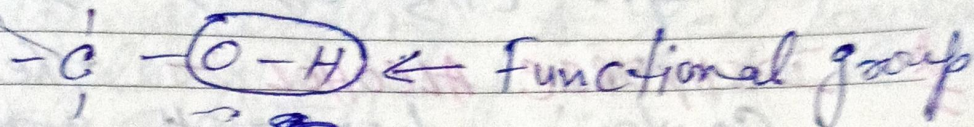
ALCOHOL

FEBRUARY 2016

16

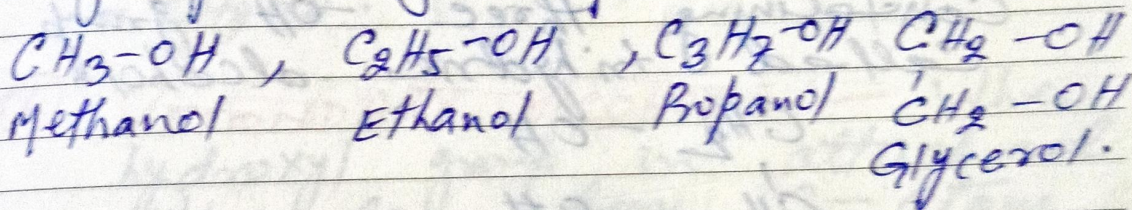
Tuesday

The term alcohol is applied to all organic compounds whose molecule contain a hydroxy group, -OH group is attached to a saturated carbon atom

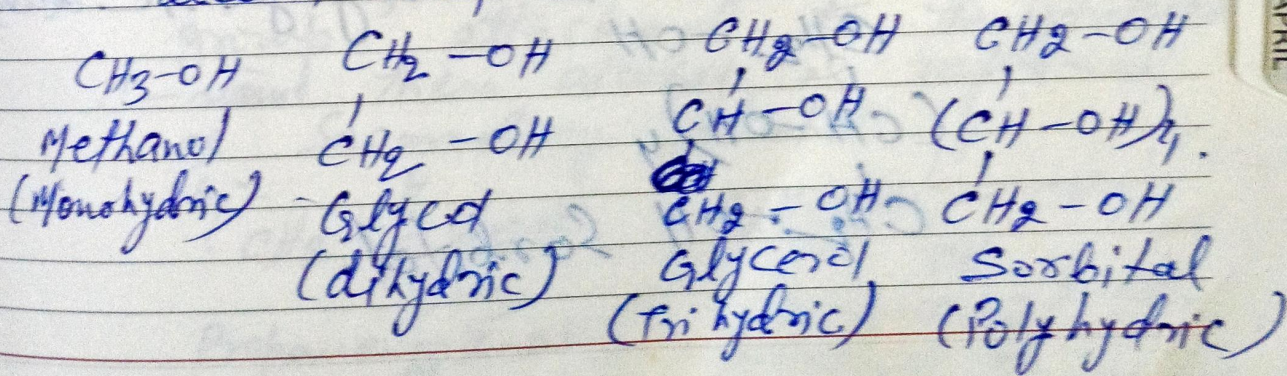


Saturated Carbon

Alcohol is hydroxy derivative of alkane or it may be called as alkyl derivative of water in which one or more hydrogen atom are replaced by hydroxy group. ~~eg.~~ Eg.



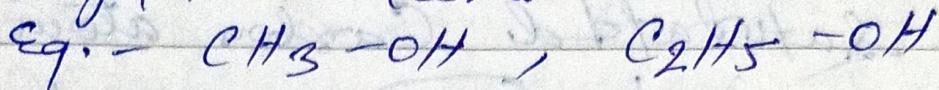
CLASSIFICATION:- Alcohols are classified as monohydric, dihydric and trihydric alcohols polyhydric alcohol. eg.



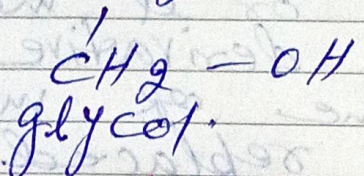
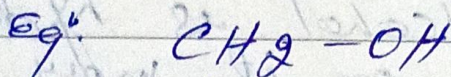
Wednesday

SCHEDULE

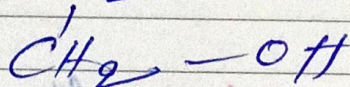
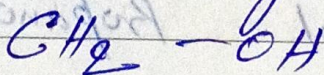
1 **MONOHYDRIC ALCOHOL** :- The alcohol contain one -OH group is called monohydric alcohol.



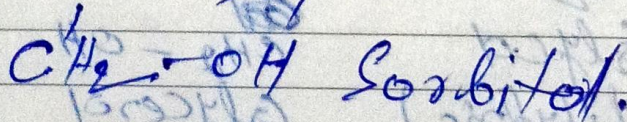
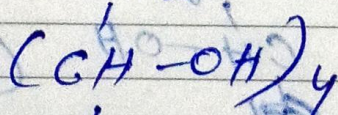
2 **DIHYDRIC ALCOHOL** :- The alcohol contain two -OH group is called dihydric alcohol.



3 **TRIHYDRIC ALCOHOL** :- The alcohol containing three -OH group is called trihydric alcohol.



4 **POLYHYDRIC ALCOHOL** :- Alcohol containing more than three -OH groups are known as polyhydric alcohols.



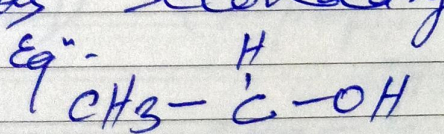
MONOHYDRIC ALCOHOL

Monohydric alcohol are further classified as 1°, 2° and 3° (Primary, Secondary & Tertiary) alcohol according to the position of hydroxyl group attached to the C-atom.

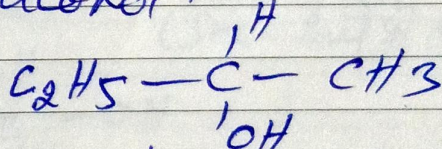
(a) PRIMARY ALCOHOL :- When hydroxyl group attached with primary C-atom then it is called primary alcohol, egⁿ - CH₃-OH, C₂H₅-OH etc.
Primary alcohols contains - CH₂OH.

(b) SECONDARY ALCOHOLS :- When hydroxyl group is attached with secondary C-atom then it is called secondary alcohols.

When hydroxyl group is attached with two alkyl group attached to the hydroxylated C-atom then alcohol is referred as secondary alcohol.



Propane - 2-ol.
or
2-propanol.



Butane - 2-ol.
or
2-Butanol or
Sec-butyl alcohol.

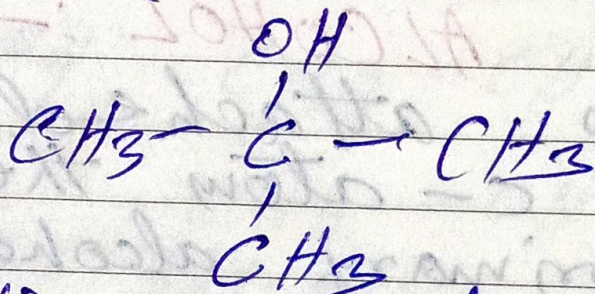
MARCH

APRIL

Friday

Secondary alcohol Contains $=CHOH$

(C) **TERTIARY ALCOHOL** :- When hydroxyl group is bonded with three alkyl group is called tertiary alcohol. When hydroxyl group is bonded with tertiary C-atom is termed as tertiary alcohol.

Eqⁿ,

Tertiary butyl alcohol or 2-Methylpropane-2-ol
Contains tertiary alcohols

~~Secondary Alcohol~~

09.00

11.00

12.00

13.00

14.00

15.00

16.00

17.00

18.00