

## Topic :-HYDROCARBONS

2 (b)

Markownikoff's rule is for addition of unsymmetrical additive on unsymmetrical alkene.

3 (d)

Paraffin wax are solid hydrocarbons from C<sub>20</sub> to C<sub>30</sub> atoms.

5 (d)

Methane is called marsh gas because it is found in swamps or marshy places and can be obtained by bacterial decomposition of fossils of plants and animals.

6 (b)

Among hydrocarbons, alkynes are easily oxidised.

7 (d)

B.P. change with branching.

8 (f)

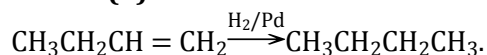
These are few oxidants.

9 (a)

The acidic character of H is,

$F-H > O-H > \underset{sp}{\equiv} C-H > N-H$ ; H-atom attached on F, O, N and triply bonded carbon is acidic.

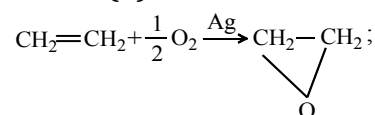
10 (b)



11 (c)

Except acetylene, all terminal alkynes have only one acidic H-atom.

13 (d)



These compounds are known as epoxy ethane or oxirane or cyclic ethers.

14 (b)

According to X-ray analysis all carbon-carbon bond distance (1.397Å) are equal in benzene.

The bond order of carbon-carbon bond is 1.5 in benzene.

Hence, carbon-carbon bond distance (1.397Å) is less than C – C single bond (1.54Å) and more than C = C double bond(1.33Å).

15 (c)

Cracking involves decomposition of higher alkanes to lower one on heating.

16 (a)

Follow mechanism of Wurtz reaction.

17 (c)

CH<sub>4</sub> is a constituent of bio-gas.

20 (a)

The lowest temperature at which an oil gives sufficient vapours to form an explosive mixture with air is referred as flash point. It is 44°C, 35°C, 22.8°C in India, France and England, respectively.

PE

ANSWER-KEY										
Q.	1	2	3	4	5	6	7	8	9	10
A.	A	B	D	D	D	B	D	D	A	B
Q.	11	12	13	14	15	16	17	18	19	20
A.	C	C	D	B	C	A	C	C	A	A

PE