



DPP

DAILY PRACTICE PROBLEMS

CLASS : XIIth

DATE :

SOLUTION

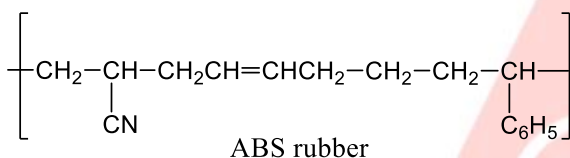
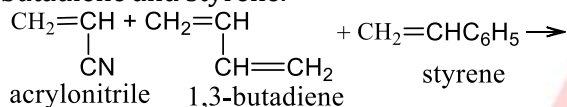
SUBJECT : CHEMISTRY

DPP NO. : 3

Topic :-POLYMERS

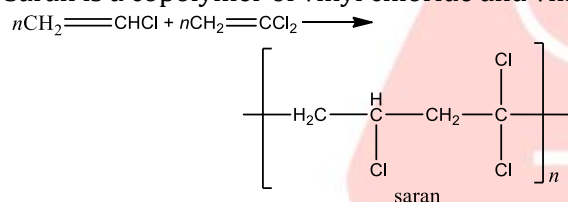
1 (a)

ABS is acrylonitrile-butadiene-styrene rubber which is obtained by copolymerisation of acrylonitrile, 1,3-butadiene and styrene.



2 (a)

Saran is a copolymer of vinyl chloride and vinylidene chloride.



3 (d)

Ethene, propene and styrene are olefins.

4 (a)

In polystyrene, head to tail chain growth polymerization occurs

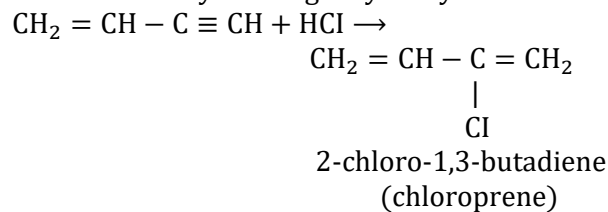
5 (a)

Bakelite is step growth polymer, *i. e.*, the condensation involving the reaction of functional group, *e.g.*, terylene, bakelite, etc.

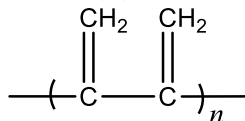
6 (c)

Chloroprene is $\text{CH}_2 = \underset{\text{Cl}}{\text{CH}} - \text{CH} = \text{CH}_2$.

It is obtained by treating vinylacetylene with HCl.



7 (d)



It suggests polymerization on the lost of vinylic hydrogen atom, which is not possible.

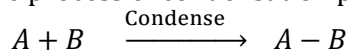
8 (d)

Electron withdrawing groups make the monomer more reactive towards anionic polymerization

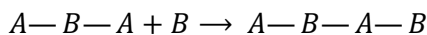
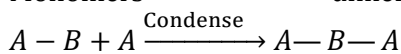
9 (c) Thiokol is polymer of $\text{CH}_2\text{ClCH}_2\text{Cl}$ and sodium polysulphide Na-S-Na and thus, not polydiene rubber.

11 (c)

The process of condensation polymerization takes place in the following manner.



Monomers dimer



In this process no initiator is required and it is also called step growth polymerization.

13 (c) Glycerol trinitrate is explosive.

14 (c)

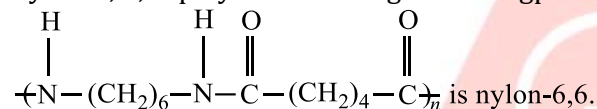
Polyhydroxy butyrate — CO— β —hydroxyl valerate(PHBV) is a biodegradable polymer.

16 (b)

Saran is a copolymer of vinyl chloride and vinylidene chloride.

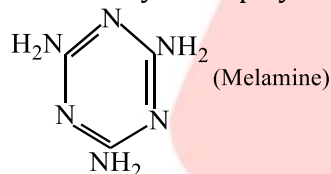
17 (b)

Nylon-6, 6, is polyamide having —CONH gp.



18 (a)

Melamine plastic crockery is a copolymer of HCHO and



20 (a)

Teflon is used for this purpose.

ANSWER-KEY

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