

Polymer

Self Evaluation Test -30

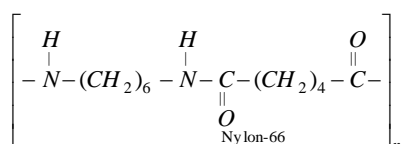
- Nylon-6 is made from [MP PMT 2002; BHU 2002]
 - Butadiene
 - Chloroprene
 - Adipic acid
 - Caprolactum
- A polymer containing nitrogen is [UPSEAT 2004; MP PET 2003]
 - Bakelite
 - Dacron
 - Rubber
 - Nylon-66
- Cellulose acetate is a [JIPMER 2002]
 - Natural polymer
 - Semisynthetic polymer
 - Synthetic polymer
 - Plasticiser
- Ethylene-propylene rubber can be
 - Vulcanized by sulphur
 - Vulcanized by peroxides
 - Both (a) and (b)
 - Non-vulcanizable
- Buna-S is a polymer of [CPMT 1987; JIPMER 1999]
 - Butadiene and styrene
 - Butadiene
 - Styrene
 - Butadiene and chloroprene
- Nylon is generic name for all synthetic fibre forming
 - Polyesters
 - Polymeric amides
 - Polystyrene
 - Polyethylene
- Polymerisation in which two or more chemically different monomers take part is called [MP PMT 1991, 93]
 - Addition polymerisation
 - Copolymerisation
 - Chain polymerisation
 - Homopolymerisation
- Whether small molecules liberate in addition polymerisation
 - Yes
 - No
 - Sometimes
 - Only H_2O
- Orlon has a unit [AFMC 2004]
 - Vinyl cyanide
 - Acrolein
 - Glycol
 - Isoprene
- The common acid used in the manufacture of rayon and plastics is [Kerala (Engg.) 2002]
 - Methanoic acid
 - Ethanoic acid
 - Propanoic acid
 - Butanoic acid
- Buna-s rubber is which of the following of 1-3-butadiene and styrene [Pb. PMT 2000]
 - Polymers
 - Copolymer
 - Addition polymer
 - Condensation polymer
- Which one of the following polymers will not catch fire [MP PET 1994]
 - $(-CF_2 - CF_2 -)_n$
 - $(-CH_2 - CH_2 -)_n$
 - $(- \underset{\text{Cl}}{\text{CH}} - \underset{\text{Cl}}{\text{CH}} -)_n$
 - $(-CH_2 - \underset{\text{Cl}}{\text{CH}} -)_n$



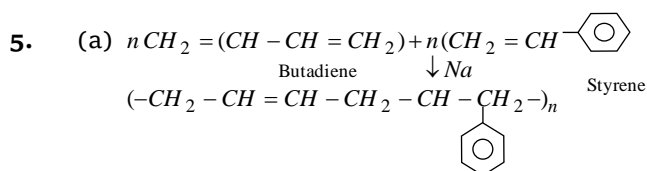
AS Answers and Solutions

(SET -30)

- (d) Caprolactun is the monomer of nylon -6.
- (d) Nylon-66- It is a polymer containing alitrogen



- (b) Because cellulose is a natural polymer.
- (b) It is vulcanized by peroxide because it requires the more electronegative element to form cross - link structure.



It is also called SBR (styrene butadiene rubber).

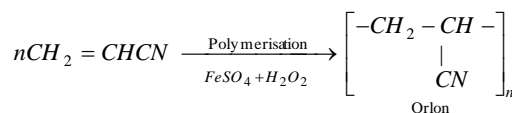
- (b) Nylon is a polyamide fibre representing the polyamide linkage.

- (b) e.g. Adipic acid + Hexamethylene diamine \rightarrow

Nylon - 6 6

- (b) In addition polymerization simple addition of monomer unit takes place without any loss of small molecules.

- (a) Orlon is prepared by polymerization of vinyl cyanide in presence of ferrous sulphate & hydrogen peroxide



- (b) Ethanoic acid is used in the manufacture of resin and plastics.
- (b) Buna-S is a copolymer of 1, 3- butadiene and styrene.

- (a) Teflon $(-\text{CF}_2 - \text{CF}_2 -)_n$ is stable upto 598 K.

