

Polymer

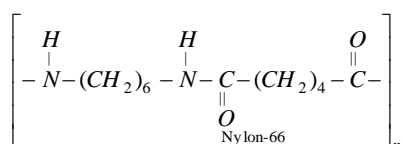
Self Evaluation Test -30

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

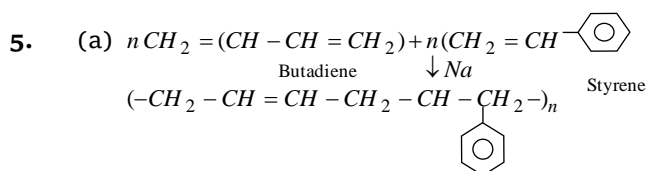
AS Answers and Solutions

(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).

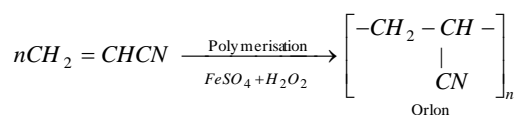
- (b) Nylon is a polyamide fibre representing the polyamide linkage.

- (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 regin and plastics.
- (b) Buna-S is a copolymer of 1, 3- butadiene and styrene.

- (a) Teflon $(-CF_2-CF_2-)_n$ is stable upto 598 K.