

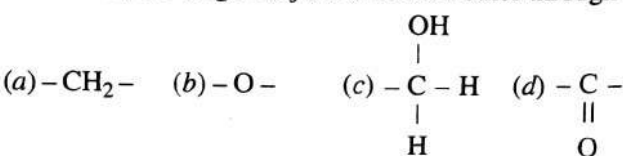
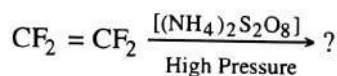
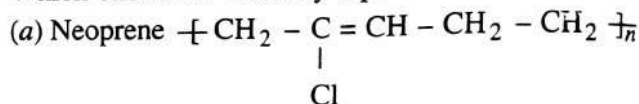
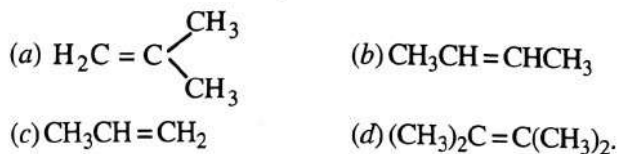
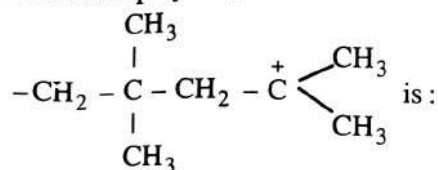


G.N. NATIONAL PUBLIC SCHOOL

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Assignment Sheet - Polymers

- Polymer of chloroprene is
(a) isoprene (b) neoprene
(c) both (d) none.
- Synthetic rubber is polymer of
(a) Vinylene chloride (b) 1, 3-butadiene
(c) 2-chloro-1,3-butadiene (d) cis-isoprene.
- Synthetic human hair wigs are made from a copolymer of vinyl chloride and acrylonitrile and is known as
(a) PVC (b) polyacrylonitrile
(c) cellulose nitrate (d) Dynel.
- Plexiglass is the commercial name of
(a) polymethyl methacrylate
(b) glyptal
(c) polyacrylonitrile (d) polyethylacrylate.
- Glyptal polymer is obtained from glycol on treatment with
(a) malonic acid (b) phenol
(c) phthalic acid (d) terephthalic acid.
- The commercial name of polymethyl methacrylate is
(a) Lucite (b) Plexiglass
(c) Perspex (d) all of these.
- PDI for natural polymers is generally close to
(a) zero (b) 1 (c) 10 (d) 100.
- Ebonite is
(a) natural rubber (b) synthetic rubber
(c) highly vulcanized rubber
(d) polypropene.
- Which of the following polymers do not involve cross-linkages?
(a) Melmac (b) Bakelite
(c) Polythene (d) Vulcanized rubber.
- Monomer of urethane is
$$(a) \text{H}_2\text{N} \cdot \text{C} \equiv \text{N} \quad (b) \text{H}_2\text{N} - \overset{\text{O}}{\underset{\text{||}}{\text{C}}} - \text{OH}$$
$$(c) \text{HO} - \text{C} \equiv \text{N} \quad (d) \text{H}_2\text{N} - \overset{\text{O}}{\underset{\text{||}}{\text{C}}} - \text{OC}_2\text{H}_5.$$
- Soft drinks and baby feeding bottles are generally made up of
(a) polyester (b) polyurethane
(c) polyurea (d) polyamide
(e) polystyrene.
- Polymer used in bullet proof glass is
(a) PMMA (b) Lexan (c) Nomex (d) Kevlar.
- A condensation polymer among the following is
(a) Polystyrene (b) Teflon
(c) Dacron (d) PVC
- Ziegler-Natta catalyst is
(a) a mixture of titanium (V) chloride and triethyl aluminium
(b) a mixture of zirconium (III) chloride and triethyl aluminium
(c) a mixture of zirconium (III) chloride and dimethyl aluminium
(d) a mixture of titanium (III) chloride and dimethyl aluminium.
- The vulcanized rubber has
(a) high water absorption, resistant to oxidation and good elasticity
(b) high water absorption, susceptible to oxidation and no elasticity
(c) low water absorption, resistance to oxidation and good elasticity
(d) low water absorption, susceptible to oxidation and no elasticity.
- Which of the following is a biodegradable polymer?
(a) Cellulose (b) Polythene
(c) Polyvinyl chloride (d) Nylon-6.
- Which one of the following is a chain-growth polymer?
(a) Starch (b) Nucleic acid
(c) Polystyrene (d) Protein.
- Nylon is not a
(a) condensation polymer (b) polyamide
(c) copolymer (d) homopolymer.
- Which of the following is not correct regarding terylene?
(a) Step-growth polymer (b) Synthetic fibre
(c) Condensation polymer (d) It is also called dacron
(e) Thermoplastic.
- Which of the following is a polyamide?
(a) Teflon (b) Nylon-6,6 (c) Terylene (d) Bakelite.
- Which of the following is fully fluorinated polymer?
(a) Neoprene (b) Teflon (c) Thiokol (d) PVC.
- The monomers of Buna-S rubber are
(a) butadiene and styrene
(b) vinyl chloride and sulphur
(c) butadiene (d) isoprene and butadiene.



- (a) Caprolactam is the monomer of nylon-6
(b) Terylene is a polyester polymer
(c) Phenol-formaldehyde resin is known as bakelite
(d) The monomer of natural rubber is butadiene

41. The monomer of polystyrene is
 (a) $C_2H_5CH=CH_2$ (b) $CH_2=CHCl$
 (c) $C_6H_5CH=CH_2$ (d) $CH_2=CHCHO$
 (e) $C_6H_5-CH_2=CHCHO$
42. Of the following which one is classified as polyester polymer?
 (a) Terylene (b) Bakelite
 (c) Melamine (d) Nylon-66
43. Monomers of bakelite are
 (a) phenol and formaldehyde
 (b) phenol and acetaldehyde
 (c) quinol and formaldehyde
 (d) none of the above
44. Protein is a
 (a) polyester (b) polyamide
 (c) polyethylene (d) polyanhydride
45. Which one of the following is not a condensation polymer?
 (a) Melamine (b) Glyptal
 (c) Dacron (d) Neoprene
46. Which of the following statements is false?
 (a) Artificial silk is derived from cellulose.
 (b) Nylon-66 is an example of elastomer.
 (c) The repeat unit in natural rubber is isoprene
 (d) both starch and cellulose are polymers of glucose
47. Which one of the following set forms the biodegradable polymer?
 (a) $CH_2=CH-CN$ and $CH_2=CH-CH=CH_2$
 (b) H_2N-CH_2-COOH and $H_2N(CH_2)_5COOH$
 (c) $HO-CH_2-CH_2-OH$ and $HOOC-C_6H_4-COOH$
 (d) $C_6H_5-CH=CH_2$ and $CH_2=CH-CH=CH_2$
48. The species which can best serve as an initiator for the cationic polymerization is
 (a) HNO_3 (b) $AlCl_3$ (c) $BuLi$ (d) $LiAlH_4$
49. Neoprene is the polymer of
 (a) cis-isoprene (b) butadiene
 (c) chloroprene (d) trans-isoprene
50. A thermoplastic among the following is
 (a) bakelite (b) polystyrene
 (c) terylene (d) urea-formaldehyde resin
 (e) nylon
51. Nylon is an example of
 (a) Polyamide (b) Polythene
 (c) Polyester (d) Polysaccharide
52. Which of these is not a monomer for a high molecular mass silicone polymer?
 (a) Me_3SiCl (b) $PhSiCl_3$ (c) $MeSiCl_3$ (d) Me_2SiCl_2
53. Which is the monomer of Neoprene in the following
 (a) $CH_2=CH-CH=CH_2$ (b) $CH_2=CH-C\equiv CH$
 (c) $CH_2=CH-C\equiv CH$ (d) $CH_2=C(CH_3)-CH=CH_2$
54. The repeating unit present in Nylon-6 is
 (a) $[-NH(CH_2)_6NHCO(CH_2)_4CO-]$
 (b) $[-CO(CH_2)_5NH-]$ (c) $[-CO(CH_2)_6NH-]$
 (d) $[-CO(CH_2)_4NH-]$
 (e) $[-NH(CH_2)_4NHCO(CH_2)_6CO-]$
55. A polymer of prop-2-enenitrile is called
 (a) saran (b) orlon (c) dacron (d) teflon
56. Which one is classified as a condensation polymer?
 (a) Acrylonitrile (b) Dacron
 (c) Neoprene (d) Teflon
57. Which of the following organic compounds polymerizes to form the polyester Dacron?
 (a) Propylene and para $HO-(C_6H_4)-OH$
 (b) Benzoic acid and ethanol
 (c) Terephthalic acid and ethylene glycol
 (d) Benzoic acid and para $HO-(C_6H_4)-OH$
58. Which one of the following is an example of thermosetting polymer?
 (a) $[-CH_2-C(CH_3)=CH-CH_2-]_n$ (b) $[-CH_2-CH(Cl)-]_n$
 (c) $[-N(H)-(CH_2)_6-N(H)-C(=O)-(CH_2)_4-C(=O)-]_n$
 (d) $[-C_6H_4(OH)-CH_2-C_6H_4(OH)-CH_2-]_n$
59. Novolac, the linear polymer used in paints is
 (a) Copolymer of 1, 3-butadiene and styrene
 (b) obtained by the polymerization of methylmethacrylate
 (c) initial product obtained in the condensation of phenol and formaldehyde.
 (e) Copolymer of melamine and formaldehyde.
60. The process of formation of polymers from respective monomers is called
 (a) polyacrylonitrile (b) Copolymerization
 (c) polymerization (d) none of the above