

Multiple Choice Questions

[MHT-CET 2005]

1. Name the compound/compounds used in preparation of nylon-6, 6.

- a) ϵ -caprolactam
b) hexamethylene diamine and adipic acid
c) dimethyl terephthalate
d) hexamethylene diamine

[MHT-CET 2008]

2. Rayon is ?

- a) natural silk
b) artificial silk
c) regenerated fibre
d) synthetic fibre

[MHT-CET 2010]

3. Terylene is a polymer obtained from

- a) ethylene glycol and glycerol
b) ethylene
c) ethylene glycol and terephthalic acid
d) none of these

[MHT-CET 2012]

4. The natural rubber is the polymer of

- a) 1, 3-butadiene
b) polyamide
c) isoprene
d) none of these

5. Nylon-6, 6 is a

- a) polyester
b) polyamide
c) polyacrylate
d) none of these

[MHT-CET 2013]

6. Which is the monomer of neoprene in the following ?

- a) $\text{CH}_2=\text{CH}-\text{C}\equiv\text{CH}$
b) $\text{CH}_2=\underset{\text{CH}_3}{\text{C}}-\text{CH}=\text{CH}_2$
c) $\text{CH}_2=\underset{\text{Cl}}{\text{C}}-\text{CH}=\text{CH}_2$
d) $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$

7. Nylon is an example of ?

- a) polyester
b) polysaccharide
c) polyamide
d) polythene

[MHT-CET 2015]

8. Identify the heteropolymer from the list given below

- a) Polythene
b) Nylon-6
c) Auxiliary valence
d) Ionizable valence

9. Which polymer among the following polymers does NOT soften on heating ?

- a) Bakelite
b) Polythene
c) Polystyrene
d) PVC

[MHT-CET 2016]

10. Correct statement for thermoplastic polymer is :

- a) It does not become soft on heating under pressure.
b) It cannot be remoulded.
c) It is either linear or branched chain polymer
d) It is cross linked polymer

Introduction

Identify the polymer from following that contains amide linkage.

- a) Dextron b) Terylene c) Nylon-66 d) PHBV

Which among the following polymers is an example of addition polymer ?

- a) Urea formaldehyde polymer b) Nylon
c) Polythene d) Dacron

Which among the following polymers is a heteropolymer ?

- a) Buna-N b) Nylon-6 c) Polythene d) Polystyrene

Which among the following polymers is used to manufacture chemical containers ?

- a) Neoprene rubber b) Buna-N
c) Styrene butadiene d) Butyl rubber

Which of the following monomers is used in manufacture of Neoprene rubber ?

- a) Styrene b) 2-Chlorobuta-1, 3-diene
c) 1, 3-Butadiene d) Isobutylene

Identify addition polymer from following.

- a) Orlon b) Nylon-6, 6
c) Polyester d) Urea formaldehyde polymer

Which among the following is a linear polymer ?

- a) Vulcanized rubber b) Polypropylene
c) Melamine d) Polyvinylchloride

Which among the following formulae represents the ϵ -amino caproic acid ?

- a) $\text{H}_2\text{N}-(\text{CH}_2)_5-\text{COOH}$ b) $\text{H}_2\text{N}-\text{CO}-\text{CH}_2-\underset{\text{COOH}}{\overset{\text{NH}_2}{\text{CH}}}$
c) $\text{HO}-\text{CH}_2-\underset{\text{NH}_2}{\text{CH}}-\text{COOH}$ d) $\text{H}_2\text{N}-\text{CH}_2-\text{COOH}$

Which of the following polymers is prepared by using phenol ?

- a) Bakelite b) Neoprene c) Teflon d) Melamine

Which polymer is obtained from monomers 3-Hydroxybutanoic acid and 3-Hydroxypentanoic acid ?

- a) PHBV b) Nylon-2-nylon-6 c) HDPE d) Dextron

Which among the following monomers is used to prepare Teflon ?

- a) $\text{CH}_2=\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{CH}}}$ b) $\text{CF}_2=\text{CF}_2$ c) $\text{CH}_2=\text{CH}-\text{Cl}$ d) $\text{CH}_3-\text{CH}=\text{CH}_2$

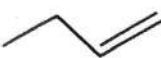
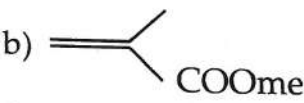
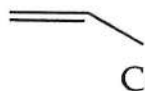

Which among the following is cross - linked polymer ?

- a) PVC b) Vulcanized rubber
c) Orlon d) Polypropylene

Which among the following polymers is used to make crockeries ?

- a) HDPE b) Buna-N c) Buna-S d) Melamine

- Identify thermoplastic polymer from following.
52. a) Neoprene b) Polystyrene c) Bakelite d) Nylon-6
- Which among the following catalysts is used in the preparation of dacron ?
53. a) Oxygen
b) Zinc acetate and antimony trioxide
c) Peroxide
d) Titanium chloride and triethyl aluminium
- Which among the following is used as a monomer for the preparation of neoprene ?
54. a) Styrene b) Isoprene c) Chloroprene d) Glycine
- Which among the following is biodegradable polymer ?
55. a) PHBV b) PTFE c) Buna-N d) PVC
- Identify the use of Buna-N.
56. a) For making inner tubes of tyres b) In making soles of shoes
c) To prepare bubble gums d) To manufacture chemical containers
- Which among the following polymers is a copolymer ?
57. a) Polystyrene b) Nylon-6 c) Polythene d) ABS plastic
- Which among the following polymers is obtained first by formation of salt by neutralization and then by step growth polymerization ?
58. a) Nylon-6 b) Nylon-6, 6 c) Novolac d) Polyester
- Which among the following polymers is obtained from $\text{CH}_2=\text{CH}-\text{CN}$ by polymerization ?
59. a) Teflon b) Neoprene c) Orlon d) Dacron
- Which among the following polymers is prepared by using Zeigler-Natta catalyst ?
60. a) LDPE b) HDPE c) Orlon d) Dacron
- Which of the following compounds is used to prepare orlon ?
61. a) $\text{CH}_2=\text{C}(\text{CH}_3)_2$ b) $\text{CH}_2=\text{CH}-\text{CN}$
c) $\text{HOOC}-(\text{CH}_2)_4-\text{COOH}$ d) $\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$
- Which of the following polymers is obtained from chloroprene ?
62. a) Butyl rubber b) Neoprene rubber c) Buna-S d) Buna-N
- Which of the following polymers is used to obtain adhesives ?
63. a) Buna-N b) Neoprene rubber c) Melamine d) Buna-S
- Which among the following catalyst is used to preparation of terylene ?
64. a) Benzoyl peroxide b) Oxygen
c) Zinc acetate and antimony trioxide d) Alkali
- Which from following polymers is used to make blankets ?
65. a) Terylene b) PAN
c) Nylon-2-nylon-6 d) Nylon-6, 6
- Which among the following polymers does NOT contain amide linkage in it ?
66. a) Orlon b) Urea formaldehyde polymer
c) Nylon-6, 6 d) Nylon-2-nylon-6

83. Identify the use of Buna-N from following
 a) To obtain decorative laminates
 b) To prepare lenses
 c) To prepare adhesives
 d) To prepare paints
84. Which of the following polymers is used in electrophoresis in the form of gel?
 a) Glyptal
 b) Buna-N
 c) Polyacrylamide
 d) PVC
85. Which of the following polymers is used in the preparation of cinema films?
 a) Semisynthetic polymers
 b) Synthetic polymers
 c) Plant polymers
 d) Animal polymers
86. Which of the following monomers is used for preparation of Nylon-6?
 a) Isobutylene
 b) Hexamethylene diammonium adipate
 c) Caprolactam
 d) Acrylonitrile
87. Identify homopolymer from following
 a) Teflon
 b) Nylon-2-Nylon 6
 c) PHBV
 d) Bakelite
88. Which among following monomers is used to prepare PVC?
 a)  b)  c)  d) 
89. Which of following elements forms crosslinks in vulcanization of SBR rubber?
 a) P
 b) O
 c) S
 d) N
90. Which free radical initiator is used for polymerization of tetrafluoroethylene?
 a) Zinc acetate
 b) Titanium tetrachloride
 c) Ammonium persulphate
 d) Acetyl peroxide
91. Which among following statements is NOT true for neoprene?
 a) It is resistant to petroleum
 b) It is obtained from styrene
 c) It is a synthetic rubber
 d) It is a condensation polymer
92. Which of the following polymers is obtained from ϵ -caprolactam?
 a) Polyacrylonitrile
 b) Neoprene
 c) Terylene
 d) Nylon-6
93. Buna-S is obtained from
 a) Styrene and 2-chloro-1, 3-butadiene
 b) Adipic acid and hexamethylene diamine
 c) Styrene and butadiene
 d) Glycine and ϵ -amino caproic acid
94. Which of the following is an example of copolymer?
 a) Polyvinyl chloride
 b) Nylon-6
 c) Buna-S
 d) Polyethylene
95. Identify catalyst used in manufacturing of HDP
 a) Ziegler-Natta
 b) Peroxides
 c) Lindlar's
 d) Magnesium oxide
96. Which among following compounds is used as monomer in preparation of Teflon?
 a) Tetrabromoethylene
 b) Tetrafluoroethylene
 c) Tetrachloroethylene
 d) Tetraiodoethylene
97. Identify monomers used for manufacturing of Terylene.
 a) Propylene glycol and Terephthalic acid
 b) Ethylene glycol and Terephthalic acid
 c) Propylene glycol and Phthalic acid
 d) Tetraiodoethylene

113. What is the molecular formula of a monomer used for preparation of teflon?
 a) C_2H_4 b) C_2H_5 c) C_2F_4 d) C_2H_5CN
114. Which among the following polymers does NOT need peroxide initiator for synthesis?
 a) Nylon-6, 6 b) LDP c) Teflon d) Polyacrylonitrile
115. Which among the following statements about HDP is NOT true?
 a) It melts at lower temperature than LDP
 b) It is crystalline
 c) It is stiffer than LDP
 d) It is manufactured by applying lower pressure than LDP manufacture process.
116. Which among the following polymers restores its original shape once stretched?
 a) Polyethylene b) Nylon 6 c) Neoprene d) Bakelite
117. Identify the monomer for synthesis of polyacrylonitrile.
 a) C_2H_4 b) CH_2CHCl c) CH_2CHCN d) C_2F_4
118. Which of the following monomers is used in preparation of PAN?
 a) $CH_2=CH-Cl$ b) $CH_2=CH-CN$
 c) $HO(CH_2)_2OH$ d) $F_2C=CF_2$
119. Urea formaldehyde resin is an example of
 a) Thermoplastic b) Thermosetting polymer
 c) Elastomer d) Fibers
120. Which from following polymers is used to obtain electrical and telecommunication hardware?
 a) Polycarbonate b) Buna-N c) Polyacrylamide d) Thermocol
121. Which of the following polymers is used to obtain hose pipes for transport of gasoline?
 a) Buna-S b) Buna-N c) Neoprene d) PVC
122. Which among the following polymers is heat resistant and used to obtain oil seals?
 a) Polycarbonates b) Teflon c) Polyacrylonitrile d) Polyacrylamide
123. Which of the following statements is NOT true about Buna-S?
 a) It is an elastomer b) It is a copolymer
 c) It is a vulcanized rubber
 d) Mechanical strength of Buna-S is lesser than natural rubber
124. Which among the following pairs of monomers does not generate polyamide polymer?
 a) Glycine and ϵ -amino caproic acid
 b) Adipic acid and Hexamethylene diamine
 c) 3-Hydroxybutanoic acid and 3-Hydroxypentanoic acid
 d) Urea and Formaldehyde
125. Which among the following polymers is used to obtained bristles for brushes?
 a) Nylon-2-nylon-6 b) Nylon-6 c) Nylon-6, 6 d) Polyacrylamide
126. Which among the following is a straight chain polymer?
 a) Low density polythene b) Polyvinylchloride
 c) Bakelite d) Melamine