CHEMISTRY

BOOKS - MBD CHEMISTRY (ODIA ENGLISH)

POLYMERS

Question Bank

1. Write two uses of Bakelite ?

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2. What is Teflon ? Write two of its uses.

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3. What is Buna-S ?

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4. How Buna-S is synthesized ?

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5. What is neoprene ? Give its one use.

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6. Give an example of natural polymer.

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7. What is the monomer of natural rubber ?

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8. Write one use of decron.

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9. What is orlon?

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10. Write the formulae of the monomers of teflon.

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11. The polymer used for making non-stick utensils is _____.

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12. Teflon is a type of _____.

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13. _____ is natural elastomer.

A. Polyisoprene

B. Polyster

C. Chloroprene

D. None

Answer:

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14. Natural rubber is a polymer of _____.

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15. Nylon-6, 6 is the polymer of—

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16. Nylon-6, 10 is a copolymer of _____ and _____.

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17. Nylon-6, 6 is a copolymer of _____ and _____


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18. Buna-S rubber is also known as _____.


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19. Polythene, PVC are _____.


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20. Formula of Hexamethylenediamine is _____.

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21. Bakelite is _____ .

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22. Neoprene is condensation polymer. Is it true or false?

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23. Natural rubber is a polymer of acrylonitrile.true ot false

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24. Bakelite is obtained by substitution reaction. Is it true or false?

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25. Bakelite is not a condensation polymer. Is it true or false

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26. Teflon is a polymer of _____.

A. ethylene

B. tetrachloroethylene

C. tetrafluoroethane

D. tetrafluoroethylene

Answer:

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27. Isoprene is synthetic rubber.

True or false ?

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28. A raw material used in making nylon is butadiene. True or False?

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29. PVC is a polymer of _____.

A. ethylene

B. tetrafluoroethene

C. chloroethene

D. none

Answer:

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30. Terylene is called a polyamide , true or false ?

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31. The monomer of Teflon polymer is difluoroethene.true or false?

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32. Polystyrene is an example of _____ polymer.

A. condensation

B. addition

C. natural

D. homopolymer

Answer:

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33. _____ is used to make non-stick cookware.

A. PVC

B. Teflon

C. Fluon

D. None

Answer:

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34. Teflon is a polyamide. Is it true or false?

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35. What are biodegradable polymers ? Give some examples.

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36. Distinguish between thermosetting and thermoplastic polymers with examples.

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37. Distinguish between the terms homopolymer and copolymer. Give one example of each.

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38. How is bakelite made and what is its major use ? Why is it called thermo-setting polymer?

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39. Distinguish between addition polymer and condensation polymer.

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40. Write chemical equation to prepare Buna-S?

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41. What are polymers? Give two examples.

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42. Illustrate elastomers and fibers with examples the basis of intermolecular forces.

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43. Explain thermoplastics and thermosetting polymers in the light of intermolecular forces. Give examples of each.

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44. Illustrate linear polymers and branched chain polymers with examples.

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45. Discuss homopolymers and copolymers with examples.

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46. Illustrate natural polymers.

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47. How can you classify man-made polymers on the basis of synthetic process?

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48. Briefly describe the synthesis of the polymer PVC and its specific uses.

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49. Briefly describe the synthesis and the specific uses of the polymer Neoprene.

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50. Briefly describe the synthesis and specific uses of polymer Teflon.

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51. Write the names and structures of the monomers of the following polymers.

Buna-S

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52. Illustrate the synthesis of the following polymer with uses. Nylon-6,6

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53. Illustrate the synthesis of polymer nylon-6,10 with its uses.

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54. Illustrate the synthesis of the following polymer with uses. Nylon-6,6

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55. Which polymer is generally used in carrybags:

A. Polyester

B. Bakelite

C. Polyethylene

D. Alkylresin

Answer: C

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56. Caprolactum can be obtained from:

A. Benzaldehyde

B. Cyclohexane

C. Benzophenone

D. Adipic acid

Answer: B

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57. Vulcanized rubber resists:

A. Wear and tear due to friction

B. Cryogenic temperature

C. High temperature

D. Action of acids

Answer: A

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58. The monomer units of silicone, a water repellant, acid resistant and heat resistant polymer is:

A. Si

B. SiO_2

C. $R_2Si(OH)_2$

D. None of these

Answer: C

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59. Which of the following does not cause pollution:

A. Burning of rubber

B. Burring of petrol

C. Use of solar energy

D. Coal

Answer: C

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60. A polymer of prop-2-ene nitrile is called:

A. Saran

B. Orlon

C. Dacron

D. Terylene

Answer: B

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61. Synthetic rubber is:

A. Polyester

B. Polyamide

C. Polysaccharide

D. Poly (halodiene)

Answer: D

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62. The turbidity of a polymer solution measures:

A. Light absorbed by the solution

B. Light transmitted by the solution

C. Light scattered by the solution

D. None of the above

Answer: C

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63. Peptide bond is a key feature in:

A. Polysaccharide

B. Proteins

C. Nucleotide

D. Vitamins

Answer: B

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64. Synthetic human hair wigs are made from a Co-polymer of vinyl chloride and acrylonitrile and is called:

A. PVC

B. Polyacrylonitrile

C. Cellulose

D. Dynel

Answer: D

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65. Natural rubber is a polymer of:

A. Trans isoprene

B. Cis isoprene

C. Cis and trans isoprene

D. None of these

Answer: B

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66. Synthetic rubber is a polymer which resrmble natural rubber is:

A. Neoprene

B. Chloroprene

C. Glyptal

D. Nylone

Answer: A

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67. The widely used PVC is a polymerised product of:

A. $CH_2 = CH_2$

B. $CH_2 = CCl_2$

C. CH_2ClCH_2Cl

D. $CH_2 = CHCl$

Answer: D

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68. Which of the following pairs is not correctly matched:

A. Terylene-condensation polymer of terephthalic acid and ethylene glycol

B. Teflon-thermally stable cross linked polymer of phenol and formaldehyde

C. Perspex-A homopolymer of methyl methacrylate

D. Synthetic rubber-A Co-polymer of butadiene and styrene

Answer: B

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69. An example of natural biopolymer is :

A. Teflon

B. Nylon-6,6

C. Rubber

D. DNA

Answer: D

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70. Which of the following is a step growth polymer:

A. Bakelite

B. Polyethylene

C. Teflon

D. PVC

Answer: A

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71. Symbolic name for teflon is:

A. PTFE

B. PCTFE

C. PVC

D. None of these

Answer: A

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72. The bakelite is made from phenol and fromaldehyde.The intial reaction between the two compounds is an example of:

A. Aromatic electrophilic substitution

B. Aromatic nucleophilic substitution

C. Free radical reaction

D. Aldol reaction

Answer: A

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73. PMMA is the polymer of:

A. Methyl methacrylate

B. Methylacrylate

C. Methacrylate

D. Ethylacrylate

Answer: A

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74. Co-polymer is not:

A. Nylon-6

B. Nylon-6,6

C. Bakelite

D. Polyethene

Answer: B

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75. A raw material used in making nylon-6,6 is:

A. Adipic acid

B. Butadiene

C. Ethylene

D. Methyl methacrylate

Answer: A

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76. Orlon is a polymer of:

A. Styrene

B. Acrylonitrile

C. Vinyl chloride

D. Tetrafluoro ethylene

Answer: B

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77. The compound used in the manufacture of terylene is:

A. Phthalic acid

B. Caprolactam

C. p-benzene dicarboxylic acid

D. none

Answer: C

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78. Which of the following belong to the class of natural polymers:

A. Proteins

B. Cellulose

C. Rubber

D. All of the above

Answer: D

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79. Toluene di-isocyanate is used to prepare:

A. Ployesters

B. Polyamides

C. Ploycarbonates

D. Ployurethanes

Answer: D

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80. Polymerisation in which two or more chemically different monomers take part is called:

A. Addition polymerisation

B. Copolymerisation

C. Chain polymerisation

D. Homo polymerisation

Answer: B

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81. Acetate rayon is prepared from:

A. Acetic acid

B. Glycerol

C. Starch

D. Cellulose

Answer: D

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82. Which one of the followings is employed in making explosives:

A. Methanol

B. Oxalic acid

C. Glycerol

D. Urea

Answer: C

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83. Polymers have:

A. Absolute mol.wt.

B. Average mol.wt.

C. Low mol.wt.

D. Absolute m.pt.

Answer: B

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84. Teflon is a polymer of

A. $(-CF_2-CF_2-)_n$

B. $(-CCl_2-CCl_2-)_n$

C. $(-CBr_2-CBr_2-)_n$

D. CF_2Cl_2

Answer: A

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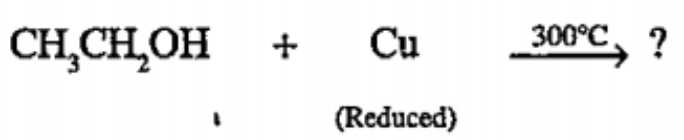
85. The product of reaction,



A. PVC

B. Nylon

C. Terylene

D. Polamide

Answer: A

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86. Natural rubber is a polymer derived from:

A. Propylene

B. Ethylene

C. Butadiene

D. Isoprene

Answer: D

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87. Which process involves the formation of polystyrene from styrene:

A. Polymerisation

B. Racemization

C. Condensation

D. Reversible reaction

Answer: A

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88. Rubber is heated with sulphur and the process is known:

A. Galvanization

B. Vulcanization

C. Bessemerization

D. Sulphonation

Answer: B

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89. Nylon-6,6 is an example of:

A. Polystyrene

B. Polyisopropene

C. Polypropylene

D. Polyamide

Answer: D

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90. Teflon, styrene and neoprene are all

A. Copolymers

B. Condensation polymers

C. Homopolymers

D. Monomers

Answer: C

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91. The catalyst used in the manufacture of polythene by Zeigler method is:

A. Titanium tetrachloride and triphenyl aluminum

B. Titanium tetrachloride and triethyl aluminum

C. Titanium dioxide

D. Titanium isoperoxide

Answer: B

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92. A copolymer is obtained by polymerisation of:

A. One type of monomer units

B. Two types of monomer units

C. Either of these

D. None of these

Answer: A

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93. Which can be used as monomer in a polymerisation reaction:

A. C_2H_6

B. C_2H_5Cl

C. C_2H_4

D. CH_3Cl

Answer: C

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94. A copolymer is obtained by polymerisation of:

A. One type of monomer units

B. More than one type of monomer units

C. Either of these

D. None of these

Answer: B

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95. Thermoplastics are:

A. Linear polymers

B. Soften or melt on heating

C. Molten polymer can be moulded in desired shape

D. All

Answer: D

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96. Thermosets are:

A. Cross-linked polymers

B. Do not melt or soften on reheating

C. Cross -linking is usually developed at the time of moulding where they harden irreversibly

D. All

Answer: D

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97. Buna-N is a polymer of:

A. 1,3-butadiene and acrylonrile

B. Acrylonitrile

C. Styrene

D. None of these

Answer: A

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98. Which are true for terpolymer:

A. Contains three different monomers

B. ABS plastic

C. A polymer of acrylonitrile,butadiene and styrene

D. All

Answer: D

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99. Which are true for elastomers:

A. These are synthetic polymers possessing elasticity

B. These possess very weak intermolecular forces of attactions between polymer chains

C. Vulcanised rubber is an example of elastomer

D. All

Answer: D

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100. Prespex or plexiglass is a polymer of:

A. Methyl methacrylate

B. Methyl acrylate

C. Acrylonitrile

D. None of these

Answer: A

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101. Glypltal or alkyds is polymer of:

A. Ethylene glycol and phthalic acid

B. Ethylene and phathalic acid

C. Phthalic acid and acetylene

D. None of these

Answer: A

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102. Nylon-6,6 is an example of:

A. Hexamethylene and adipic acid

B. Hexamethlene and sebasic acid

C. Caprolactum

D. None of these

Answer: A

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103. Which one is protein fibre:

A. Cotton

B. Rayon

C. Silk

D. Polyester

Answer: C

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104. Which one is chain growth polymer:

A. Polypropylene

B. Glyptal

C. Nylon-6,6

D. Nylon-6

Answer: A

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105. Polymer obtained by condensation polymerisation is :

A. Polythene

B. Teflon

C. PVC

D. Phenol Formaldehyde resin

Answer: D

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106. If N_1, N_2, N_3..... Are the number of molecules with molecular masses M_1, M_2, M_3 ..... Respectively, than mass average molecular mass is expressed:

A. $\frac{\sum N_i M_i^2}{\sum N_i M_i}$

B. $\frac{\sum N_i M_i}{\sum N_i}$

C. $\frac{\sum M_i^2}{\sum N_i}$

D. $\frac{\sum N_i M_i^2}{\sum M_i}$

Answer: A

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107. Which of the following polymer can be remelted time to time without producing any change?

A. Thermosetting polymers

B. Thermoplastic polymers

C. Bakelite

D. Malamine

Answer: B

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108. In vulcanisation of rubber:

A. Suiphur reacts to from new compound

B. Sulphur cross-links are introduced

C. Sulphur forms a very thin protective layer over rubber

D. All of the statements are correct

Answer: B

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109. The weakest interparticle forces are present in:

A. Thermosetting polymers

B. Thermoplastic polymers

C. Fibres

D. Elastomers

Answer: D

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110. The starting materials of PCTFE are:

A. Monochlorotrifluoro ethylene

B. Tetrafluorethylene

C. Vinyl chloride

D. Styrene

Answer: A

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111. Cellulose is a condensation polymer of:

A. Maltose

B. β-glucose

C. α-glucose

D. β-fructose

Answer: B

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112. Chemical name of malamine is :

A. 2,4-diamino-1,3,5-triazine

B. 2-amino-1,3,5-triazine

C. 2,4,6-triamino-1,3,5-triazine

D. 1,3,5-triamino-2,4,6-triazine

Answer: C

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113. The prosses of valcanisation of rubber was introducedby:

A. Zeigler

B. MRF

C. Charles good year

D. Wohler

Answer: C

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114. The abbreviation PDI refers to:

A. Name of the polymer

B. poly dispersity index of polymer

C. Application

D. Poly diagonal index

Answer: B

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115. Which one is a polymer compound :

A. SO_2

B. CO_2

C. CH_4

D. PVC

Answer: D

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116. Which of the following is not an example of addition polymer:

A. Polyethene

B. Polystyrene

C. Neoprene

D. Terylene

Answer: D

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117. Which of the following contains isoprene units:

A. Natural rubber

B. Nylon-6,6

C. Polyethylene

D. Dacron

Answer: A

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118. Example of addition polymer is:

A. Buna -s

B. Bakelite

C. Nylon-6

D. Melmac

Answer: A

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119. Which of the following is an addition polymer :

A. SBR

B. Glyptals

C. Terylene

D. Nylons

Answer: A

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120. Which of the following is not a thermoset:

A. Glyptals

B. Bakelite

C. Melamine - formaldehyde polymer

D. Styrene-butadiene rubber

Answer: D

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121. Which of the following is not a synthetic polymer:

A. polyisoprene

B. polybutadiene

C. Polyethylene terephthalate

D. Polyethylene

Answer: A

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122. Which of the following is not a natural polymer :

A. Glycogen

B. Cellulose

C. Pepsin

D. Polybutadiene

Answer: D

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123. Which of the following is not a fibre :

A. Terylene

B. Nylon

C. Polyacrylonitrile

D. Polychloroprene

Answer: D

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124. Nylon-6,6 is a strong crystalline fibre due to the presence of intermolecular forces which are:

A. H-bonds

B. Covalent bonds

C. Van der waal's attractive forces

D. Ionic bonds

Answer: A

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125. Teflon is made by polymerisation of:

A. Tetrafluoroethene

B. Isobutene

C. Vinyl acetate

D. Methyl methacrylate

Answer: A

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126. Which of the following cannot be grouped as polyolefins:

A. Polyethene

B. polypropene

C. polystyrene

D. Polyoxyethene

Answer: D

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127. Polymerisation of chloroethylene gives the polymer:

A. Polyethene

B. PVC

C. Teflon

D. Nylons

Answer: B

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128. polymers are:

A. Micromolecule

B. Macromolecules

C. Sub -micromolecules

D. None of these

Answer: B

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129. Which of the following is a condensation polymer:

A. Polystyrene

B. Neoprene

C. PAN

D. Poly (ethylene terphthalate)

Answer: D

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130. Bakelite is :

A. Addition polymer

B. Elastomer

C. Thermoplastic

D. Thermosetting

Answer: D

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131. Nylon-6,6 is a polyamide of:

A. Vinyl chloride and formaldehyde

B. Adipic acid and methyl amine

C. Adipic acid and hexamethylene diamine

D. Formaldehyde and melamine

Answer: C

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132. Buna-S is a :

A. Natural polymer

B. Synthetic polymer

C. Sulphur polymer

D. None of these

Answer: B

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133. The monomer units of PTFE are:

A. $Cl_2CH - CH_3$

B. $F_2C = CF_2$

C. $F_3C - CF_3$

D. $FClC = CF_2$

Answer: B

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134. Which one is a homopolymer:

A. Bakelite

B. Nylon-6,6

C. Terylene

D. Neoprene

Answer: D

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135. Natural rubber is a:

A. Polyester

B. Polyamide

C. Polyisoprene

D. Polysaccharide

Answer: C

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136. Which of the following is commonly called a ..polyamide..:

A. Rayon

B. Nylon

C. Terylene

D. Orlon

Answer: B

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137. Terylene is a:

A. Polyamide

B. Polyester

C. Polyether

D. Long chain hydrocarbon

Answer: B

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138. Protein is a polymer of:

A. Glucose

B. Terephthalic acid

C. Amino acids

D. None of these

Answer: C

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139. Which one among the following is a thermosetting plastic :

A. PVC

B. PVA

C. Bakelite

D. None of these

Answer: C

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140. The fibre obtained by the condensation of hexamethylene diamine and adipic acid is :

A. Dacron

B. Nylon-6,6

C. Rayon

D. Teflon

Answer: B

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141. Buna rubber is a polymer of :

A. 1,3-butadiene

B. Vinyl acetate

C. Styrene

D. None

Answer: A

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142. Buna -S is a copolymer of:

A. Styrene and 1,3-butadine

B. Styrene and ethylene

C. 1,3-butadiene and ethylene

D. None

Answer: A

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143. Melamine plastic crockery is a polymer of:

A. HCHO and melamine

B. HCHO and ethylene

C. Melamine and ethylene

D. None

Answer: A

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144. Bakelite is :

A. HCHO and malamine

B. HCHO and phenol

C. Phenol and ethylene

D. None

Answer: B

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145. Which of the following is not a copolymer ?

A. Polyisoprene

B. polychloroprene

C. Thiokol rubber

D. Nitrille rubber

Answer: C

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146. Which of the following natural product is not a polymer:

A. cotton

B. Cellulose rayon

C. silk

D. wool

Answer: C

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147. Which is considered to be the first synthetic polymer:

A. Nylon

B. Terylene

C. LDPE

D. Bakelite

Answer: D

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148. Number average molecular mass $\bar{M}_n$ of synthetic and weigth average mol. Mass $\bar{M}_w$ of synthetic polymer are related as :

A. $\bar{M}_n < \bar{M}_w$

B. $\bar{M}_n > \bar{M}_w$

C. $\bar{M}_n = \bar{M}_w$

D. $M_n > M_w$

Answer: A

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149. To make PVC a flexible plastic , the additive used is called:

A. Filler

B. Antioxidant

C. Stabilizer

D. Plasticiser

Answer: D

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150. Condensation of caprolactam gives:

A. Nylon-6,6

B. Nylon-6

C. Nitrile rubber

D. Nylon -6,10

Answer: B

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151. Which of the following is an inert polymer used in coating, particularly in non - sticking frying pans:

A. Teflon

B. Perspex

C. Bakelite

D. Orlon

Answer: A

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152. Which of the following is wrong :

A. PMMA is called Plexiglas

B. PTFE is called Teflon

C. SBR is called natural rubber

D. LDPE is called low density polyethylene

Answer: C

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153. Which of the following is not a cellulose product,

A. Gun cotton

B. Celluloid

C. Rayon

D. Dacron

Answer: D

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154. Nylons, polyesters and cotton all possess strength due to :

A. Intermolecular H-bonding

B. Vander waals' attraction

C. Dipole - dipole interaction

D. None of the above

Answer: A

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155. Which of the following is not a natural polymer :

A. Starch

B. Cellulose

C. Glyptal

D. Glycogen

Answer: C

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156. Natural fibre is :

A. Strach

B. cellulose

C. Rubber

D. Nylon-6

Answer: B

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157. PDI for natural polymers is generally close to:

A. Zero

B. 100

C. 1

D. 10

Answer: C

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158. Strongest interparticle forces exist in:

A. Elastomers

B. Thermoplastics

C. Fibers

D. Thermosetting polymer

Answer: D

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159. Natural rubber is a:

A. A trans 1,4-polyisoprene polymer

B. A very hard meterial

C. A synthetic polymer

D. All of the statements are correct

Answer: D

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160. Natural silk and artificial silk differ in one respect that one of them contains:

A. N

B. S

C. P

D. None

Answer: A

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161. A co -polymer of vinyl chloride and vinylidene chloride is called:

A. Dynel

B. Saran

C. Vinylon

D. None of these

Answer: A

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162. A co -polymer of vinyl chloride and vinyl acetate is called:

A. Vinyon

B. PVCA

C. Dynel

D. Orlon

Answer: A

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163. A co -polymer of isobutylene and isoprene is called:

A. Butyl rubber

B. Buna -S

C. Buna -N

D. Thiokol

Answer: A

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164. Which can absorb over 99% of its own mass of water and does not stick to wound:

A. Rayon

B. Guncotton

C. Thiokol

D. Saran

Answer: A

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165. Isoprene is used for making :

A. Rubber

B. Petrol

C. Liquid fuel

D. None

Answer: A

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166. The phenomenon involving the union of two or more molecules to form a new molecular aggregate is called :

A. Polarisation

B. Polymerisation

C. Photosensitisation

D. Pasteurization

Answer: B

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167. Write two uses of Bakelite ?

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168. What is Teflon ? Write two of its uses.

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169. What is Buna-S ?

Watch Video Solution

170. How Buna-S is synthesized ?

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171. What is neoprene ? Give its one use.

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172. Give four examples of natural polymers.

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173. What is the monomer of natural rubber ?

Watch Video Solution

174. Write one use of decron.

Watch Video Solution

175. What is orlon?

Watch Video Solution

176. Write the formulae of the monomers of polythene and teflon.

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177. The polymer used for making non-stick utensils is _____.

Watch Video Solution

178. Teflon is a type of _____.

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Watch Video Solution

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182. Nylon-6, 10 is a copolymer of _____ and _____.

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183. Nylon-6, 6 is a copolymer of _____ and _____

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184. Buna-S rubber is also known as _____.

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185. Polythene, PVC are _____.

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186. Formula of Hexamethylenediamine is _____.

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187. Bakelite is _____ polymer.

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188. Neoprene is condensation polymer. Is it true or false?

Watch Video Solution

189. Natural rubber is a polymer of acrylonitrile.true ot false

Watch Video Solution

190. Bakelite is obtained by substitution reaction. Is it true or false?

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191. Bakelite is not a condensation polymer. Is it true or false

Watch Video Solution

192. Teflon is a type of

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193. Isoprene is synthetic rubber.

True or false ?

Watch Video Solution

194. A raw material used in making nylon is butadiene. True or False?

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195. Which is naturally occurring polymer?

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196. Terylene is called a polyamide , true or false ?

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197. The monomer of Teflon polymer is difluoroethene.true or false?

Watch Video Solution

198. Polystyrene is not an example of addition polymer.

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199. _____ is used to make non-stick cookware.

Watch Video Solution

200. Teflon is a polyamide. Is it true or false?

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201. What are biodegradable polymers ? Give some examples.

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202. Distinguish between thermosetting and thermoplastic polymers with examples.

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203. Distinguish between the terms homopolymer and copolymer. Give one example of each.

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204. How is bakelite made and what is its major use ? Why is it called thermo-setting polymer?

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205. Distinguish between addition polymer and condensation polymer.

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206. What are elastomers ? Write chemical equation to prepare Buna-S.

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207. What are polymers?

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208. Illustrate elastomers and fibers with examples the basis of intermolecular forces.

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209. Explain thermoplastics and thermosetting polymers in the light of intermolecular forces. Give examples of each.

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210. Illustrate linear polymers and branched chain polymers with examples.

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211. Discuss homopolymers and copolymers with examples.

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212. Illustrate natural polymers.

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213. How can you classify man-made polymers on the basis of synthetic process?

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214. Briefly describe the synthesis of the polymer PVC and its specific uses.

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215. Briefly describe the synthesis of the following polymers with specific uses. (ii) Neoprene

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216. Briefly describe the synthesis of the following polymers with specific uses. (iii) Teflon

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217. Briefly describe the synthesis of the following polymers with specific uses. (iv) Buna-S

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218. Illustrate the synthesis of the following polymer with uses. Nylon-6,6

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219. Illustrate the synthesis of polymer nylon-6,10 with its uses.

Watch Video Solution

220. Illustrate the synthesis of the following polymers with uses. Bakelite

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221. Which polymer is generally used in carrybags:

A. Polyester

B. Bakelite

C. Polyethylene

D. Alkylresin

Answer: C

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222. Caprolactum can be obtained from:

A. Benzaldehyde

B. Cyclohexane

C. Benzophenone

D. Adipic acid

Answer: B

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223. Vulcanized rubber resists:

A. Wear and tear due to friction

B. Cryogenic temperature

C. High temperature

D. Action of acids

Answer: A

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224. The monomer units of silicone, a water repellant, acid resistant and heat resistant polymer is:

A. Si

B. SiO_2

C. R_2SiO

D. None of these

Answer: C

Watch Video Solution

225. Which of the following does not cause pollution:

A. Burning of rubber

B. Burring of petrol

C. Use of solar energy

D. Coal

Answer: C

Watch Video Solution

226. A polymer of prop-2-ene nitrile is called:

A. Saran

B. Orlon

C. Dacron

D. Tetron

Answer: B

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227. Synthetic rubber is:

A. Polyester

B. Polyamide

C. Polysaccharide

D. Poly L(halodiene)

Answer: D

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228. The turbidity of a polymer solution measures:

A. A light absorbed by solution

B. Light transmitted by the solution

C. Light scattered by the solution

D. None of the above

Answer: C

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229. Peptide bond is a key feature in:

A. Polysaccharide

B. Proteins

C. Nucleotide

D. Vitamins

Answer: B

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230. Synthetic human hair wigs are made from a Co-polymer of vinyl chloride and acrylonitrile and is called:

A. PVC

B. Polyacrylonitrile

C. Cellulose

D. Dynel

Answer: D

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231. Natural rubber is a polymer of:

A. Trans isoprene

B. Cis isoprene

C. Cis and trans isoprene

D. None of these

Answer: B

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232. Synthetic rubber is a polymer which resrmble natural rubber is:

A. Neoprene

B. Chloroprene

C. Glyptal

D. Nylone

Answer: A

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233. The widely used PVC is a polymerised product of:

A. $CH_2 = CH_2$

B. $CH_2 = \mathbb{C}l_2$

C. CH_2ClCH_2Cl

D. $CH_2 = CHCl$

Answer: D

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234. Which of the following pairs is not correctly matched:

A. Terylene-condensation polymer of terephthalic acid and ethylene glycol

B. Teflon-thermally stable cross linked polymer of phenol and formaldehyde

C. Perspex-A homopolymer of methyl methacrylate

D. Synthetic rubber-A Co-polymer of butadiene and styrene

Answer: B

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235. An example of natural biopolymer is :

A. Teflon

B. Nylon-6,6

C. Rubber

D. DNA

Answer: D

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236. Which of the following is a step growth polymer:

A. Bakelite

B. Polyethylene

C. Teflon

D. PVC

Answer: A

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237. Symbolic name for teflon is:

A. PTFE

B. PCTFE

C. PVC

D. None of these

Answer: A

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238. The bakelite is made from phenol and fromaldehyde.The intial reaction between the two compounds is an example of:

A. Aromatic electrophilic substitution

B. Aromatic nucleophilic substitution

C. Free radical reaction

D. Aldol reaction

Answer: A

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239. PMMA is the polymer of:

A. Methyl methacrylate

B. Methylacrylate

C. Methacrylate

D. Ethylacrylate

Answer: A

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240. Co-polymer is:

A. Nylon-6

B. Nylon-6,6

C. Bakelite

D. Polyethene

Answer: B

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241. A raw material used in making nylon-6,6 is:

A. Adipic acid

B. Butadiene

C. Ethylene

D. Methyl methacrylate

Answer: A

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242. Orlon is a polymer of:

A. Styrene

B. Acrylonitrile

C. Vinyl chloride

D. Tetrafluoro ethylene

Answer: B

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243. The compound used in the manufacture of terylene is:

A. Phthalic acid

B. Caprolactam

C. p-benzene dicarboxylic acid

D. m-phthalic acid

Answer: C

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244. Which of the following belong to the class of natural polymers:

A. Proteins

B. Cellulose

C. Rubber

D. All of the above

Answer: D

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245. Toluene di-isocyanate is used to prepare:

A. Ployesters

B. Polyamides

C. Ploycarbonates

D. Ployurethanes

Answer: D

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246. Polymerisation in which two or more chemically different monomers take part is called:

A. Addition polymerisation

B. Copolymerisation

C. Chain polymerisation

D. Homo polymerisation

Answer: B

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247. Acetate rayon is prepared from:

A. Acetic acid

B. Glycerol

C. Starch

D. Cellulose

Answer: D

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248. Which one of the followings is employed in making explosives:

A. Methanol

B. Oxalic acid

C. Glycerol

D. Urea

Answer: C

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249. Polymers have:

A. Absolute mol.wt.

B. Average mol.wt.

C. Low mol.wt.

D. Absolute m.pt.

Answer: B

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250. Teflon is :

A. $(- CF_2 - CF_2 -)_n$

B. $(- \mathbb{C}l_2 - \mathbb{C}l_2 -)_n$

C. (-CBr_2-CBr_2-)_n`

D. CF_2Cl_2

Answer: A

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251. The product of addition polymerisation reaction is:

A. PVC

B. Nylon

C. Terylene

D. Polamide

Answer: A

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252. Natural rubber is a polymer derived from:

A. Propylene

B. Ethylene

C. Butadiene

D. Isoprene

Answer: D

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253. Which process involves the formation of polystyrene from styrene:

A. Polymerisation

B. Racemization

C. Candensation

D. Reversible reaction

Answer: A

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254. Rubber is heated with sulphur and the process is known:

A. Galvanization

B. Vulcanization

C. Bessemerization

D. Sulphonation

Answer: B

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255. Nylon-6,6 is an example of:

A. Polystyrene

B. Polyisopropene

C. Polypropylene

D. Polyamide

Answer: D

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256. Teflon, styrene and neoprene are all

A. Copolymers

B. Condensation polymers

C. Homopolymers

D. Monomers

Answer: C

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257. The catalyst used in the manufacture of polythene by Zeigler method is:

A. Titanium tetrachloride and triphenyl aluminum

B. Titanium tetrachloride and triethyl aluminum

C. Titanium dioxide

D. Titanium isoperoxide

Answer: B

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258. A homopolymer is obtained by polymerisatation of:

A. One type of monomer units

B. Two types of monomer units

C. Either of these

D. None of these

Answer: A

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259. Which can be used as monomer in a polymerisation reaction:

A. C_2H_6

B. C_2H_5Cl

C. C_2H_4

D. CH_3Cl

Answer: C

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260. A copolymer is obtained by polymerisation of:

A. One type of monomer units

B. More than one type of monomer units

C. Either of these

D. None of these

Answer: B

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261. Thermoplastics are:

A. Linear polymers

B. Soften or melt on heating

C. Molten polymer can be moulded in desired shape

D. All

Answer: D

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262. Thermosets are:

A. Cross-linked polymers

B. Do not melt or soften on heating

C. Cross -linking is usually developed at the time of moulding where they harden reversibly

D. All

Answer: D

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263. Buna-N is a polymer of:

A. 1,3-butadiene and acrylonrile

B. Acrylonitrile

C. Styrene

D. None of these

Answer: A

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264. Which are true for terpolymer:

A. Contains three monomers

B. ABS plastic

C. A polymer of acrylonitrile,butadiene and styrene

D. Sulphonation

Answer: D

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265. Which are true for elastomers:

A. These are synthetic polymers possessing elasticity

B. These possess very weak intermolecular forces of attactions between polymer chains

C. Vulcanised rubber is an example of elastomer

D. All

Answer: D

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266. Prespex or plexiglass is a polymer of:

A. Methyl methyl acrylate

B. Methyl acrylate

C. Acrylonitrile

D. None of these

Answer: A

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267. Glypltal or alkyds is polymer of:

A. Ethylene glycol and phthalic acid

B. Ethylene and phathalic acid

C. Phthalic acid and acetylene

D. None of these

Answer: A

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268. Nylon-6,6 is an example of:

A. Hexamethylene and adipic acid

B. Hexamethlene and sebasic acid

C. Caprolactum

D. None of these

Answer: A

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269. Which one is protein fibre:

A. Cotton

B. Rayon

C. Silk

D. Polyester

Answer: C

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270. Which one is chain growth polymer:

A. Polypropylene

B. Glyptal

C. Nylon-6,6

D. Nylon-6

Answer: A

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271. Polymer obtained by condensation polymerisation is :

A. Polythene

B. Teflan

C. PVC

D. Phenol Formaldehyde resin

Answer: D

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272. If N_1, N_2, N_3..... Are the number of molecules with molecular masses M_1, M_2, M_3 ..... Respectively, than mass average molecular mass is expressed:

A. $\frac{\sum N_i M_i^2}{\sum N_i M_i}$

B. $\frac{\sum N_i M_i}{\sum N_i}$

C. $\frac{\sum M_i^2}{\sum N_i}$

D. $\frac{\sum N_i M_i^2}{\sum M_i}$

Answer: A

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273. Which of the following polymer can be remelted time to time without producing any change?

A. Thermosetting polymers

B. Thermoplastic polymers

C. Bakelite

D. Malamine

Answer: B

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274. In vulcanisation of rubber:

A. Sluphur reacts to from new compound

B. Sulphur cross-links are introduced

C. Slphure forms a very thin protective layer over rubber

D. All of the statements are correct

Answer: B

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275. The weakest interparticle forces are present in:

A. Thermosetting polymers

B. Thermoplastic polymers

C. Fibres

D. Elastomers

Answer: D

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276. The starting materials of PCTFE are:

A. Monochlorotrifluoro ethylene

B. Tetrafluorethylene

C. Vinyl chloride

D. Styrene

Answer: A

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277. Cellulose is a condensation polymer of:

A. Maltose

B. β-glucose

C. α-glucose

D. β-fructose

Answer: B

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278. Chemical name of malamine is :

A. 2,4-diamino-1,3,5-triazine

B. 2-amino-1,3,5-triazine

C. 2,4,6-triamino-1,3,5-triazine

D. 1,3,5-triamino-2,4,6-triazine

Answer: C

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279. The prosses of valcanisation of rubber was introducedby:

A. Zeigler

B. MRF

C. Charles good year

D. Wohler

Answer: C

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280. The abbreviation PDI refers to:

A. Name of the polymer

B. poly dispersity index of polymer

C. Application

D. Poly diagonal index

Answer: B

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281. Which one is a polymer compound :

A. SO_2

B. CO_2

C. CH_4

D. PVC

Answer: D

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282. Which of the following is not an example of addition polymer:

A. Polyethene

B. Polystyrene

C. Neoprene

D. Treylene

Answer: D

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283. Which of the following contains isoprene units:

A. Natural rubber

B. Nylon-6,6

C. Polyethylene

D. Dacron

Answer: A

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284. Example of addition polymer is:

A. Buna -s

B. Bakelite

C. Nylon-6

D. Malamac

Answer: A

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285. Which of the following is an addition polymer :

A. SBR

B. Glyptals

C. Terylene

D. Nylons

Answer: A

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286. Which of the following is not a thermoset:

A. Glyptals

B. Bakelite

C. Melamine - formaldehyde polymer

D. Styrene-butadiene rubber

Answer: D

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287. Which of the following is not a synthetic polymer:

A. polyisoprene

B. polybutadiene

C. Polyethylene terephthalate

D. Polyethylene

Answer: A

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288. Which of the following is not a natural polymer :

A. Glycogen

B. Cellulose

C. Pepsin

D. Polybutadiene

Answer: D

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289. Which of the following is not a fibre :

A. Terylene

B. Nylons

C. Polyacrylonitrile

D. Polychloroprene

Answer: D

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290. Nylon-6,6 is a strong crystalline fibre due to the presence of intermolecular forces which are:

A. H-bonds

B. Covalent bonds

C. Van der waal's attractive forces

D. Ionic bonds

Answer: A

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291. Teflon is made by polymerisation of:

A. Tetrafluoroethene

B. Isobutene

C. Vinyl acetate

D. Methyl methacrylate

Answer: A

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292. Which of the following cannot be grouped as polyolefins:

A. Polyethene

B. polypropane

C. polystyrene

D. Polyoxyethene

Answer: D

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293. Polymerisation of chloroethylene gives the polymer:

A. Polyethene

B. PVC

C. Teflon

D. Nylons

Answer: B

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294. polymers are:

A. Micromolecule

B. Macromolecules

C. Sub -micromolecules

D. None of these

Answer: B

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295. Which of the following is a condensation polymer:

A. Polystyrene

B. Neoprene

C. PAN

D. Poly (ethylene terphthalate)

Answer: D

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296. Bakelite is :

A. Addition polymer

B. Elastomer

C. Thermoplastic

D. Thermosetting

Answer: D

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297. Nylon-6,6 is a polyamide of:

A. Vinyl chloride and farmaldehyde

B. Adipic acid and methyl amine

C. Adipic acid and hexamethylene diamine

D. Formaldehyde and malamine

Answer: C

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298. Buna-S is a :

A. Natural polymer

B. Synthetic polymer

C. Sulphur polymer

D. None of these

Answer: B

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299. The monomer units of PTFE are:

A. $Cl_2CH - CH_3$

B. $F_2C = CF_2$

C. $F_3C - CF_3$

D. $FClc = CF_2$

Answer: B

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300. Which one is a homopolymer:

A. Bakelite

B. Nylon-6,6

C. Terylene

D. Neoprene

Answer: D

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301. Natural rubber is a:

A. Polyester

B. Polyamide

C. Polyisoprene

D. Polysaccharide

Answer: C

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302. Which of the following is commonly called a ..polyamide..:

A. Rayon

B. Nylon

C. Terylene

D. Orlon

Answer: B

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303. Terylene is a

A. Polyamide

B. Polyester

C. Polyether

D. Long chain hydrocarbon

Answer: B

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304. Protein is a polymer of:

A. Glucose

B. Terephthalic acid

C. Amino acids

D. None of these

Answer: C

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305. Which one among the following is a thermosetting plastic :

A. PVC

B. PVA

C. Bakelite

D. None of these

Answer: C

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306. The fibre obtained by the condensation of hexamethylene diamine and adipic acid is :

A. Dacron

B. Nylon-6,6

C. Rayon

D. Teflon

Answer: B

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307. Buna rubber is a polymer of :

A. 1,3-butadiene

B. Vinyl acetate

C. Styrene

D. None

Answer: A

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308. Buna -S is a copolymer of:

A. Styrene and 1,3-butadine

B. Styrene and ethylene

C. 1,3-butadiene and ethylene

D. None

Answer: A

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309. Melamine plastic crockery is a polymer of:

A. HCHO and malamine

B. HCHO and ethylene

C. Malamine and ethylene

D. None

Answer: A

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310. Bakelite is a copolymer of:

A. HCHO and malamine

B. HCHO and phenol

C. Phenol and ethylene

D. None

Answer: B

 Watch Video Solution

311. Which of the following rubber is not a polydiene:

A. Polyisoprene

B. polychloroprene

C. Thiokol rubber

D. Nitrille rubber

Answer: C

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312. Which of the following natural product is not a polymer:

A. DNA

B. Cellulose

C. ATP

D. Urease

Answer: C

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313. Which is considered to be the first synthetic polymer:

A. Nylon

B. Terylene

C. LDPE

D. Bakelite

Answer: D

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314. Number average molecular mass $\bar{M}_n$ of synthetic and weigth average mol. Mass $\bar{M}_w$ of synthetic polymer are related as :

A. $\bar{M}_n < \bar{M}_w$

B. $\bar{M}_n > \bar{M}_w$

C. $\bar{M}_n = \bar{M}_w$

D. $M_n > M_w$

Answer: A

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315. To make PVC a flexible plastic , the additive used is called:

A. Filler

B. Antioxidant

C. Stabilizer

D. Plasticiser

Answer: D

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316. Condensation of caprolactam gives:

A. Nylon-6,6

B. Nylon-6

C. Nitrile rubber

D. Nylon -6,10

Answer: B

Watch Video Solution

317. Which of the following is an inert polymer used in coating, particularly in non - sticking frying pans:

A. Teflon

B. Perspex

C. Bakelite

D. Orlon

Answer: A

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318. Which of the following is wrong :

A. PMMA is called Plexiglas

B. PTFE is called Teflon

C. SBR is called natural rubber

D. LDPE is called low density polyethylene

Answer: C

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319. Which of the following is not a cellulose product,

A. Gun cotton

B. Celluloid

C. Rayon

D. Dacron

Answer: D

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320. Nylons, polyesters and cotton all possess strength due to :

A. Intermolecular H-bonding

B. Vander waals' attraction

C. Dipole - dipole interaction

D. None of the above

Answer: A

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321. Which of the following is not a natural polymer :

A. Starch

B. Cellulose

C. Glyptal

D. Glycogen

Answer: C

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322. Natural fibre is :

A. Strach

B. cellulose

C. Rubber

D. Nylon-6

Answer: B

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323. PDI for natural polymers is generally close to:

A. Zero

B. 100

C. 1

D. 10

Answer: C

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324. Strongest interparticle forces exist in:

A. Elastomers

B. Thermoplastics

C. Fibers

D. Thermosetting polymer

Answer: D

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325. Gutta pracha rubber is:

A. A trans 1,4-polyisoprene polymer

B. A very hard meterial

C. A synthetic polymer

D. All of the statements are correct

Answer: D

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326. Natural silk and artificial silk differ in one respect that one of them contains:

A. N

B. S

C. P

D. None

Answer: A

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327. A co -polymer of vinyl chloride and vinylidene chloride is called:

A. Dynel

B. Saran

C. Vinylon

D. Oelen

Answer: A

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328. A co -polymer of vinyl chloride and vinyl acetate is called:

A. Vinyon

B. Saran

C. Dynel

D. Orlen

Answer: A

 Watch Video Solution

329. A co -polymer of isobutylene and isoprene is called:

A. Butyl rubber

B. Buna -S

C. Buna -N

D. Thiokol

Answer: A

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330. Which can absorb over 99% of its own mass of water and does not stick to wound:

A. Rayon

B. Guncotton

C. Thiokol

D. Saran

Answer: A

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331. Isoprene is used for making :

A. Rubber

B. Petrol

C. Liquid fuel

D. None

Answer: A

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332. The phenomenon involving the union of two or more molecules to form a new molecular aggregate is called :

A. Polarisation

B. Polymerisation

C. Photosensitisation

D. Pasteurization

Answer: B

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