(C) Same as thermoset phenol formaldehyde
(D) Not a polymer
Answer: Option C
03. Polyurethane cannot be used for making
(A) Mattresses & foam
(B) Coating material
(C) Adhesives
(D) Bottles
Answer: Option D
04 resins are produced by the condensation polymerisation of formaldehyde with
urea or melamine.
(A) Epoxy
(B) Amino
(C) Alkyd
(D) Phenolic
Answer: Option B
05. Nylon-6, 10 which is used for bristles making is superior to nylon 6, 6 due to its lower water absorption capacity, is a/an
(A) Polyester
(B) Polyamide
(C) Polyisoprene
(D) Polystyrene
Answer: Option B
06. Which of the following natural bio polymers are formed as a result of polymerisation of amino-acids?
(A) Starch
(B) Cellulose
(C) Proteins
(D) Nucleic acids
Answer: Option C
Alliswet. Option C
07. Which of the following is an inorganic polymer?
(A) Teflon
(B) Perspex
(C) Silicones
(D) Bakelite
Answer: Option C
08. Buna-S is a material.
(A) Fibrous
(B) Plastic
(C) Resinous
(D) Rubbery
Answer: Option D
09. Epoxy resin is a polymer containing two or more groups of the bellow fig. is called epoxide group or ethoxyline group. It is a
- Ć - Ċ -
(A) Polyamide & an elastomer
(B) Good adhesive
(C) Surface coating agent
(D) Both (B) and (C)
Answer: Option D
10 practically possess no elasticity.
(A) Vulcanite or ebonite
(B) Spandex fibre
(C) Polysulphide rubber
(D) Epoxy resin

Answer: Option A
11. Which of the following has the weakest intermolecular forces? (A) Polyisoprene
(B) Nylon-66
(C) Polystyrene
(D) Bakelite
Answer: Option A
12. Polystyrene is a plastic at room temperature.
(A) Ductile (B) Brittle
(C) Malleable
(D) None of these
Answer: Option B
This well option B
13. Transistor parts and refrigerator components are normally made of (A) Polystyrene
(B) Polyester
(C) High density polythene
(D) Polyurethane
Answer: Option A
•
14. Condensation polymerisation of produces Bakelite.
(A) Propylene(B) Phenol & formaldehyde
(C) Phenol & acetaldehyde
(D) Urea & formaldehyde
Answer: Option B
15. Silicone resins, which are highly water repellent and has good heat resistance cannot be used
(A) As room temperature adhesive
(B) As grease & lubricant
(C) Hydraulic fluid for heat transfer
(D) Resin for lamination
Answer: Option A
16. Low pressure Zeigler process of polythene manufacture
(A) Employs a pressure of 30 kgf/cm ²
(B) Achieves an yield of 95-98% based on ethylene
(C) Produces very low density polythene
(D) Does not use any catalyst for polymerisation
Answer: Option B
17. Fillers such as zinc oxide and carbon black are added to the crude natural rubber before
vulcanisation in order to improve its
(A) Elasticity
(B) Strength
(C) Plasticity
(D) Weathering characteristics
Answer: Option D
18. Cross linked polymers formed from bi-and trifunctional groups in which cross-linkage in three dimensions via few chemical bonding across linear chains occur imparts to the polymer
properties.
(A) Thermoplastic
(B) Thermosetting
(C) Elastometric
(D) Brittleness
Answer: Option C
19. Cation exchange resins used in water treatment is made from resin.
(A) Urea formaldehyde
(B) Epoxy
(C) Amino

Answer	: Option A
20. Thermo	oplastic resins usually
	nain hard as long as they are hot
(B) Can	not be reclaimed from waste
(C) Perr	manent setting resins
	s brittle than thermosetting resins
Answer	: Option D
21. Celluloi	d is
(A) Cell	ulose acetate
	enerated cellulose
	ulose nitrate
	ulose acetate butyrate
Answer	: Option C
22. Cation	exchange resins (0.3 to 1 mm size) used in water treatment is prepared from
(A) E	resins.
(A) Epo	
	nol formaldehyde a formaldehyde
	amine formaldehyde
	: Option C
23 Tyros o	re made by
•	ction moulding
(B) Extr	· · · · · · · · · · · · · · · · · · ·
` '	ational moulding
	npression moulding
Answer	: Option C
24. Perspex	can be used as a substitute of glass. Its monomer is
	hyl methacrylate
(B) DM	
(C) Buta	adiene
	rafluoroethylene
Answer	: Option A
25. Automo	obile steering wheels are normally made of
	ulose acetate
	ulose nitrate
(C) PVC	
_	h density polythene
Answer	: Option A
	onstituent of cotton fibre is
(A) Ligi	
(B) Cell	
(C) Star	
(D) Gela	: Option B
Allswer	. Орион в
	of dry spinning of polymers, the polymer solution in a volatile solvent is forced
	e spinnerates into a warm air chamber, where the solvent evaporates leaving behind
(A) Poly	r in the filament form. Dry spinning is used for fibres.
(B) PVC	
(C) Ray	
	yvinyl acetate
	: Option B
28. Glyptal	used in the manufacture of paints & lacquers is a polymer.
(A) Poly	
(B) Poly	vstyrene

(D) Phenolic

(C) Polyester (D) Polyacrylonitrile Answer: Option C
29. The main use of butadiene is (A) As a plasticiser for unsaturated polyester (B) In the manufacture of synthetic rubber (C) As an anti-skimming agent in paint (D) None of these Answer: Option B
30. Temperature and gage pressure maintained during the manufacture of hot SBR (styrene butadiene rubber) are (A) 50°C and 3 - 4 kg/cm² (B) 50°C and 1 kgf/cm² (C) 250°C and 10 kgf/cm² (D) 250°C and 1 kgf/cm² Answer: Option A
31. Teflon is (A) Phenol formaldehyde (B) An inorganic polymer (C) Polytetrafluroethylene (PTFE) (D) A monomer Answer: Option C
32. Antioxidants are added to rubber to protect it from the attack of light, heat & atmospheric ozone. Which of the following is an antioxidant used in rubber? (A) Carbon (B) Alkylated diphenyl amine (C) Thiokol (D) Magnesium Answer: Option B
33. Orlan fibre which is used as a wool substitute is (A) An amorphous polymer (B) A natural polymeric fibre (C) Polyacrylonitrile (D) Poly-methyl-methacrylate (PMMA) Answer: Option C
34. Acrylonitrile-butadiene-styrene (ABS) copolymer, which is produced by blending styrene-acrylonitrile copolymer with butadiene based elastomer, is a/an
 (A) Rigid foam (B) Engineering plastic (C) Thermosetting polymer (D) Spongy rubber Answer: Option B
35. Which of the following additives are added to plastics to make it impervious to X-rays? (A) Asbestos (B) Barium salt (C) Carborundum (D) Phthalic acid Answer: Option B
36. Condensation polymerisation of formaldehyde with does not produce phenolic resin. (A) Resorcinol (B) Phenol (C) Para-cresol (D) Melamine Answer: Option D

37. Neoprene which is used for making shoe heels & belts is superior to natural rubber in its stability to aerial oxidation and resistance to oils & other solvents. The monomer used for making neoprene is

- (A) Chloroethane
- (B) Chloroprene
- (C) Isoprene
- (D) None of these

Answer: Option B

38. The monomer for the production of neoprene rubber is

- (A) Acetylene
- (B) Chloroprene
- (C) Isoprene
- (D) None of these

Answer: Option B

39. Zeigler process

- (A) Produces high density polythene
- (B) Uses no catalyst
- (C) Produces low density polythene
- (D) Employs very high pressure

Answer: Option A

40. Which of the following polymers belong to the class of formaldehyde resin?

- (A) Melamine resins
- (B) Teflon
- (C) Dacron
- (D) None of these

Answer: Option A

41. Polypropylene compared to polythene is

- (A) Harder
- (B) Stronger
- (C) Lighter
- (D) All (A), (B) and (C)

Answer: Option D

42. Epoxy resins (i.e., epoxide polymers)

- (A) Are made by addition polymerisation reaction only
- (B) Contain an epoxy group (fig bellow) at the ends of the polymer

- (C) Are cross-linked polymers only
- (D) Use emulsion polymerisation methods

Answer: Option B

43. Nylon-6 as compared to nylon-66 is

- (A) Harder
- (B) More abrasion resistant
- (C) Having higher melting point
- (D) None of these

Answer: Option D

44. Nylon-6 is manufactured from

- (A) Caprolactam
- (B) Adipic acid and Hexamethylenediamine
- (C) Maleic anhydride and Hexamethylenediamine
- (D) Sebacic acid and Hexamethylenediamine

Answer: Option A

45. Pick out the wrong statement.

- (A) For the manufacture of styrene, the major raw materials are benzene and ethylene
- (B) One important copolymer of styrene is SBR, which is widely used in the manufacture of automobile tyres

- (C) Manufacture of phenol by chloroben-zene-eaustic process involves. The chlorination of benzene, causticisation and hydrolysis
- (D) Phenol manufacture by chlorobenzene-caustic process is competitive even when low cost chlorine is not available

Answer: Option D

46. Identify the group in which all the polymers mentioned can be used to make fibres.

- (A) Butadiene copolymers, Polyamides, Urea-formaldehyde
- (B) Cellulose derivatives, Polyisoprene, Polyethylene
- (C) Cellulose derivatives, Polyamides, Polyurethane
- (D) Polypropylene, Poly vinyl chloride, Silicon

Answer: Option B

47. Nylon-6 as compared to nylon 66 has lower

- (A) Abrasion resistance
- (B) Thermal stability
- (C) Adhesion to rubber
- (D) Hardness

Answer: Option A

48. Natural rubber is obtained from latex, which is a colloidal dispersion of rubber in water. Which of the following is used as a coagulant in latex?

- (A) Ammonium alum
- (B) Potassium alum
- (C) Both 'a' & 'b'
- (D) Neither 'a' nor 'b'

Answer: Option C

49. Which of the following is not a thermoplastic material?

- (A) Epoxy polymer
- (B) PVC
- (C) Polystyrene
- (D) Polythene

Answer: Option A

50. Which of the following types of polymers has the strongest inter particle forces?

- (A) Elastomers
- (B) Fibres
- (C) Thermoplastics
- (D) Thermosetting polymers

Answer: Option D

51. Addition polymerisation is not involved in the manufacture of

- (A) Low density polythene
- (B) Poly vinyl chloride
- (C) Polystyrene
- (D) Polyhexamethylene adipamide

Answer: Option D

52. Mastication of rubber means

- (A) Its softening
- (B) A treatment to retard its deterioration due to oxidation
- (C) Improving its curing rate
- (D) Depression of its freezing point

Answer: Option A

53. Amino resins are used in paper treatment to improve its

- (A) Wet tear and bursting strength
- (B) Folding endurance
- (C) Wet rub resistance
- (D) All (A), (B) & (C)

Answer: Option D

54. Polythene is a/an

(A) Addition polymerisation product

	(D) None of these Answer: Option A
55.	Addition of stabiliser during PVC manufacture is done to (A) Improve its impact strength (B) Improve its elasticity (C) Reduce the melt viscosity & glass transition temperature (D) Prevent its thermal degradation Answer: Option D
56.	Neoprene is the trade name of (A) Polyurethane (B) Phenol formaldehyde (C) Polychlorophrene (D) Styrene butadiene rubber (SBR) Answer: Option C
	are produced by reacting polybasic acid (e.g. Phthalic anhydride) with yhydric alcohol (e.g., glycerol). (A) Unsaturated polyester (B) Alkyd resins (C) Saturated polyester (D) Amino resins Answer: Option B
58.	polymer is used for making unbreakable crockery. (A) Thermoplastic (B) Melamine (C) Addition (D) None of these Answer: Option B
59.	Maximum consumption of polymers is in (A) Electrical insulation (B) Toys making (C) Coating and films (D) Packaging Answer: Option C
60.	The synthetic fibres produced from are known as rayon. (A) Lignin (B) Cellulose (C) Polyamides (D) Ethylene glycol Answer: Option B
61.	A copolymer is formed by the combination of two or more monomer molecules (A) In a chain without the elimination of water (B) With the elimination of small amount of water (C) Of the same monomer by elimination of small molecules of water (D) None of these Answer: Option A
62.	Pick out the wrong statement regarding the solubility characteristics of high polymers. (A) Greater the degree of cross-linking in the polymer, lesser is its solubility (B) Polymers having more aliphatic character are more soluble in aliphatic solvents, while those polymers having more aromatic character are more soluble in aromatic solvents (C) Swelling tendency or solubility of polymers in a particular solvent decreases with increase in

(B) Condensation polymerisation product

(C) Thermosetting material

(D) High molecular weight polymers on dissolving gives solution of very low viscosity

molecular weight of the solvent

Answer: Option D

(B) Anti-shrinkage agents
(C) Plasticisers
(D) Transparency improver Answer: Option C
Allswer. Option C
64. Styrene butadiene rubber (SBR) as compared to natural rubber has
(A) Poor tensile strength
(B) Poorer resistance(C) Greater amount of heat build up heavy loading
(C) Greater amount of heat build up heavy loading (D) All (A), (B) and (C)
Answer: Option D
65. The rate controlling step in the manufacture of silicone rubber is the
(A) Polymer termination step
(B) Condensation of siloxane to silicone(C) Initial hydrolysis of silicone monomer
(D) None of these
Answer: Option C
66. The conversion of caprolactam in the above case is about percent.
(A) 25 (B) 50
(C) 70
(D) 90
Answer: Option D
67. Viscosity of a polymer solution or melt (A) Decreases with increase in molecular weight
(B) Decreases with increase in temperature
(C) Increases with increase in temperature
(D) Does not vary with temperature rise
Answer: Option C
68. Caprolactam, a raw material for the manufacture of nylon-6, is produced from
(A) Phenol
(B) Naphthalene
(C) Benzene
(D) Pyridine Answer: Option C
Answer. Option C
69. Vulcanisation of rubber decreases its
(A) Tensile strength
(B) Resistance to organic solvents (C) Tackiness
(D) Working temperature range
Answer: Option C
70. Polyvinyl alcohol is used as a
(A) Cation/anion exchanger(B) Water soluble adhesive
(C) Textile fibre
(D) Non-sticky coating on frying pans
Answer: Option B
71. Which of the following is the most important rubber compounding ingredient which is used to improve wearing qualities of both natural rubber & SBR by imparting toughness? (A) Phosphorous
(B) Carbon black
(C) Pine oil
(D) Rosin
Answer: Option B
72. In a cross linked polymer, the monomeric units are linked together to constitute a three dimensional network. Which of the following is a cross-linked polymer?

(A) Hardeners

- (A) Bakelite (phenol formaldehyde)
- (B) Polyester
- (C) Polythene
- (D) Nylon-6

Answer: Option A

73. Pick out the wrong statement.

- (A) Cold SBR is superior as compared to hot SBR
- (B) Polymerisation temperature can modify the properties of SBR
- (C) Production of cold SBR employs lower pressure as compared to that of hot SBR
- (D) None of these Answer: Option D

74. Molecular weights of plastics ranges from

- (A) 1000 to 5000
- (B) 5000 to 1000
- (C) 20000 to 25000
- (D) 10^9 to 10^{11}

Answer: Option C

75. Temperature and gage pressure maintained during the manufacture of cold SBR (styrene butadiene rubber) are

- (A) 5°C and 1 kgf/cm²
- (B) 20° C and 1 kgf/cm²
- (C) 0°C and 1 kgf/cm²
- (D) 0° C and 3 kgf/cm^2

Answer: Option A

76. Poly-methyl-methacrylate (PMMA) is known as

- (A) Bakelite
- (B) Teflon
- (C) Perspex
- (D) Nylon-6

Answer: Option C

77. Orion is

- (A) A copolymer
- (B) A condensation polymer
- (C) Obtained by polymerising vinyl cyanide
- (D) All (A), (B) and (C)

Answer: Option C

78. A copolymer of vinyl and vinylidene chloride is called

- (A) Trevlene
- (B) Orlon
- (C) Saran
- (D) Dacron

Answer: Option C

79. Pick out the wrong statement.

- (A) Linear polymers are formed from bifunctional groups only and are normally thermoplastic
- (B) Cross-linked branched chain polymers are either elastometric or thermosetting
- (C) Branching in case of cross-linked polymers caused by small amount of impurities in bifunctional monomer formulation reduces its solubility and increases the softening point
- (D) Dibasic acids reacts with dihydric alcohols to give polyesters using addition polymerisation reaction

Answer: Option D

80. SBR is produced by the copolymerisation of butadiene & styrene by employing emulsion polymerisation. The weight ratio of styrene and butadiene is maintained at

- (A) 1: 3
- (B) 3:1
- (C) 1:2
- (D) 2:1

Answer: Option A

81. Alkyd resin e.g., glyptal resin formed by Phthalic anhydride and glycerine is not used

- (A) For surface coating of automobiles & air crafts
- (B) For fibre making
- (C) As plasticiser for PVC & nitrocellulose
- (D) For film forming materials

Answer: Option B

82. Thermosetting polymers as compared to thermoplastic polymers

- (A) Are formed by addition polymerisation
- (B) Have three dimensional structure
- (C) Have linear structure
- (D) None of these Answer: Option B

83. Neoprene is rendered non-inflammable, because of

- (A) Its cross-linked structure
- (B) Its linear chain structure
- (C) The presence of chlorine atoms in its monomer
- (D) The absence of chlorine atoms in its monomer

Answer: Option C

84. _____ is not a polyester fibre.

- (A) Terylene
- (B) Dacron
- (C) Nylon
- (D) Polyacrylonitrile

Answer: Option C

85. Buna-S is also called

- (A) Polyurethane
- (B) SBR
- (C) Teflon
- (D) Bakelite

Answer: Option B

86. In nylon-66, the first and second numbers (i.e., 6) respectively designate the number of carbon atoms present in the

- (A) Hexamethylene diamine and the ring
- (B) Hexamethylene diamine and the adipic acid
- (C) Adipic acid and the ring
- (D) None of these Answer: Option B

87. Which of the following is not a polymer of two monomers?

- (A) Teflon
- (B) Bakelite
- (C) SBR
- (D) None of these

Answer: Option A

88. The monomer of poly vinyl chloride (PVC) is

- (A) Chloroethane
- (B) Ethylene dichloride
- (C) Ethyl chloride
- (D) Chloroform

Answer: Option A

89. Thermocol (expanded polystyrene) is not used for

- (A) Low temperature thermal insulation as in refrigerator and air conditioners
- (B) Acoustic control and ceiling for building
- (C) High temperature thermal insulation in furnaces
- (D) Packing of delicate electronic gadgets

Answer: Option C

depending on the reagents used. Free radical polymerisation is catalyzed by	, which
decompose to give free radicals.	
(A) Organic peroxides	
(B) Sulphuric acid	
(C) Hydrofluoric acid	
(D) None of these	
Answer: Option A	
91. Most commonly used rubber vulcanisation agent is	
(A) Sulphur	
(B) Bromine	
(C) Platinum	
(D) Alumina	
Answer: Option A	
92. Out of all the elastomers, natural rubber has the longest elongation range &	z flexibility of the
order of percent.	, 1101110 1110
(A) 1-1000	
(B) 1000-1500	
(C) 1500-2000	
(D) 2000-2500	
Answer: Option A	
93. Liners of bags are usually made of	
(A) Polythene	
(B) PVC	
(C) Polypropylene	
(D) Polyesters	
Answer: Option C	
04 D-1-14-2/	
94. Bakelite is a/an	
(A) Addition polymer	
(B) Elastomer	
(C) Thermoplastic (D) None of these	
Answer: Option D	
Allswer. Option D	
95 is an addition polymer	
(A) Nylon	
(B) Bakelite	
(C) Polythene	
(D) None of these	
Answer: Option C	
96. Density of high density polythene is about gm/c.c.	
(A) 1.18	
(B) 1.05	
(C) 0.95	
(D) 0.99	
Answer: Option C	
97. Which of the following is an elastomer?	
(A) Thiokol	
(B) Phenol formaldehyde	
(C) Urea formaldehyde	
(D) Polystyrene	
Answer: Option A	
98. Non sulphonated hard bakelites are not used for making	
98. Non sulphonated hard bakelites are not used for making (A) Ion-exchange resins	
98. Non sulphonated hard bakelites are not used for making (A) Ion-exchange resins (B) Fountain pen barrels	
98. Non sulphonated hard bakelites are not used for making (A) Ion-exchange resins	

Answer: Option A

99. Plastic tubes & pipes are generally made by	_ moulding.
(A) Injection	
(B) Transfer	
(C) Extrusion	
(D) Compression	
Answer: Option C	
100. The organic acid monomer in nylon-66 is	
(A) Sebacic acid	
(B) Terephthalic acid	
(C) Adipic acid	
(D) Benzoic acid	
Answer: Option C	
Allswer. Option C	
101. Diphenylamine is added to rubber to	
(A) Vulcanise it	
(B) Protect it from deterioration on exposure to air	
(C) Make it non-inflammable	
(D) Make it thermosetting	
Answer: Option B	
Allswer. Option B	
102. Which of the following polymers is used for making a	non stick coating on frying pans?
(A) Bakelite	non stick couting on Itying pans.
(B) Teflon	
(C) Perspex	
(D) PVC	
Answer: Option B	
rinswer. Option B	
103. Temperature maintained in the emulsion polymerisati	ion reactor for PVC manufacture is
about° C.	1011 1 4 W 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(A) -20	
(B) 50	
(C) 250	
(D) 500	
Answer: Option B	
rinswer. Option B	
104. Which of the following polymers has the tendency of d	lecomposing before melting?
(A) Polystyrene	secomposing secore merang.
(B) Nylon	
(C) PVC	
(D) None of these	
Answer: Option C	
rinswer. Option C	
105. Plastic articles are normally produced by	moulding.
(A) Green sand	
(B) Injection	
(C) Shell	
(D) Dry sand	
Answer: Option B	
rmswer. Option B	
106. Synthetic polymer produced by using terephthalic acid	d and ethylene glycol is
(A) Terylene	g-y
(B) Nylon-66	
(C) PVC	
(D) Polystyrene	
Answer: Option A	
107. Low pressure Zeigler process for the manufacture of p	oolythene uses a catalyst which is
(A) Ni	
(B) V_2O_5	
(C) Fe	
(D) Aluminium triethyl combined with titanium tetrachlori	ide
(= , = ===============================	

(A) Teflon (B) PTFE (C) SBR (D) Polycrylates Answer: Option C 109. Pick out the wrong statement. (A) Denier is defined as weight in gm of 9000 metres length of a fibre, while tex is defined as weight in gm of 1000 metres length of fibre (B) Crimp is a measure of the difference between the length of the straightened and unstraightened fibre (C) Dacron fibres, acrylic fibres, viscose rayon fibres & cellulose acetate fibres are all prepared by wet spinning (D) Nylon fibres have greater water absorption capacity than polyester fibres Answer: Option C 110. Flexible plastic pipes are made of (A) High density polyethylene (HDPE) (B) Low density polyethylene (LDPE) (C) Polypropylene (D) Unsaturated polyester Answer: Option B 111. Cellulose acetate has very high film permeability among all the polymers of the order of 5000 gm/100 m². Which of the following polymers has the maximum film elongation (of the order of 100%)? (A) Water impermeable cellophane (B) Polythene (C) Cellulose acetate (D) Teflon Answer: Option B 112. 90% of the caprolactam is converted to nylon-6 on its condensation polymerisation in the reactor maintained at a temperature of _____ °C. (A) -5(B) 10-30 (C) 250-280 (D) 500-600 Answer: Option C 113. The physical state in which polymers exist is (A) Melts & rubber like state (B) Amorphous glassy state (C) Partially crystalline state (D) All (A), (B) and (C) Answer: Option D 114. Ebonite is a/an (A) Highly vulcanised rubber (B) Natural rubber (C) Unvulcanised raw rubber (D) Adhesive Answer: Option A 115. Alkyd resin is a/an (A) Polyamide (B) Polyester (C) Polyolefin (D) Addition polymer Answer: Option B

116. Due to its excellent permeability to air/gas and oxidation resistance, the tubes of automobile tyres is made of

(A) Cold SBR

108. Buna-S is also known as

(B) Butyl rubber (C) Bunai N (D) Buna S
Answer: Option B
117. Polycaprolactam (Nylon - 6) is produced by the condensation polymerisation of caprolactam at 240-280°C in which the conversion of caprolactam is about percent. (A) 50 (B) 75 (C) 90 (D) 99 Answer: Option C
118. Polymerisation product of C_2F_4 (carbon tetrafluoride) is called P.T.F.E. (poly chloro tetra fluoro ethylene). It is also called (A) Polyurethane (B) Silicone rubber (C) Teflon (D) Epoxy resin Answer: Option C
119. Ion exchange resins are made of (A) Lucite (B) Sulphonated Bakelite (C) Polystyrene (D) Teflon Answer: Option B
120. Dacron is a/an (A) Polyester (B) Unsaturated polyester (C) Polyamide (D) Inorganic polymer Answer: Option A
121. Bristles of tooth brushes are made of (A) Nylon-6 (B) Nylon-66 (C) Polystyrene (D) PVC Answer: Option B
122. Which of the following is not present in bagasse fibre? (A) Cellulose (B) Lignin (C) Pentogens (D) None of these Answer: Option D
123. Most of the plastics are safe to be used upto a maximum temperature of °C. (A) 100 (B) 150 (C) 350 (D) 450 Answer: Option B
124. Which of the following is generally not used as eard for synthetic rubber tyre casing? (A) Dacron (B) Nylon (C) Cellulose (D) None of these Answer: Option C
125. Contact lenses for eyes are made of Perspex, which is nothing but (A) poly-methyl-methacrylate

- (B) Polystyrene
- (C) Unsaturated polyester
- (D) Polypropylene Answer: Option A

126. Addition of plasticisers to polymers results in partial neutralisation of intermolecular forces of attraction between the macro-molecules thereby increasing its

- (A) Tensile strength
- (B) Chemical resistance
- (C) Flexibility
- (D) All (A), (B) & (C)

Answer: Option C

127. Which of the following is not a polyolefin?

- (A) Polystyrene
- (B) Polypropylene
- (C) Neoprene
- (D) None of these

Answer: Option C

128. Neoprene is chemically known as

- (A) Polybutadiene
- (B) Styrene butadiene rubber (SBR)
- (C) Polyurethane
- (D) Poly chloroprene

Answer: Option D

129. Vulcanisation of raw rubber makes it

- (A) Soft
- (B) Less elastic
- (C) Plastic
- (D) Tacky

Answer: Option B

130. Polycondensation of saturated dicarboxylic acid with polyhydric alcohol produces

- (A) Epoxy resin
- (B) Polyamide
- (C) Alkyd resin
- (D) Phenolic resin

Answer: Option C

131. Poly-methyl-methacrylate, which is an acrylic resin, is also called

- (A) Thiokol
- (B) Plexiglass or Lucite
- (C) Dacron
- (D) Teflon

Answer: Option B

132. Reaction of dimethyl terephthalate (DMT) and ethylene glycol produces

- (A) Nylon-6
- (B) Dacron
- (C) Polyester
- (D) PVC

Answer: Option B

133. Alkyd resin cannot be used for making

- (A) Plasticiser
- (B) Paint & varnish
- (C) Fibres
- (D) Film forming materials

Answer: Option C

134. Polyvinyl chloride (PVC) is

- (A) A thermosetting material
- (B) A condensation polymerisation product

(C) Made by employing emulsion polymerisation (D) None of these Answer: Option C 135. Buna-N is also called (A) Butyl rubber (B) Nitrile rubber (C) Neoprene (D) Thiokol Answer: Option B 136. Which of the following is a copolymer? (A) PVC (B) Bakelite (C) Polythene (D) Teflon Answer: Option B 137. Molecular weight of polymers are in the range of (A) $10 \text{ to } 10^3$ (B) 10^2 - 10^7 (C) $10^7 - 10^9$ (D) $10^9 - 10^{11}$ Answer: Option B _ scrap can be recycled & reutilised. (A) Bakelite (B) Epoxy resin (C) Polythene (D) None of these Answer: Option C

139. Branched chair polymers as compared to linear polymers have

- (A) Higher melting point
- (B) Higher tensile strength
- (C) Lower density
- (D) None of these

Answer: Option C

140. Nitrile rubber is produced by the polymerisation of

- (A) Acrylonitrile & butadiene
- (B) Acrylonitrile & styrene
- (C) Isobutylene & isoprene
- (D) None of these

Answer: Option A

141. Viscose rayon is

- (A) Cellulose nitrate
- (B) Regenerated cellulose nitrate
- (C) Regenerated cellulose acetate
- (D) None of these

Answer: Option D

142. Epoxy resin is

- (A) Not used for surface coating
- (B) A good abrasive
- (C) An elastomer
- (D) A polyester

Answer: Option B

143. Pick out the correct statement.

- (A) Plastics are good conductors of heat and electricity
- (B) All the polymers are highly crystalline in nature
- (C) Polymers can be vaporised by heating to a very high temperature

(D) The liquid polymer becomes greasy, then waxy and finally solid on increasing the degree of polymerisationAnswer: Option D
144. Lavatory cisterns are normally made of
(A) Expanded polystyrene
(B) Saturated polyester
(C) Perspex
(D) PVC
Answer: Option A
145. Starting material for the production of butadiene in India is
(A) Naphthalene
(B) Benzol
(C) Ethyl alcohol
(D) Phthalic anhydride
Answer: Option C
146. Which of the following polymers does not belong to the class of Polyacrylate polymer?
(A) PMMA
(B) Polyacrylonitrile
(C) Poly Ethyl acrylate
(D) None of these
Answer: Option D
147. Low density polythene as compared to high density polythene is
(A) Harder
(B) Tougher(C) Chemically inert
(D) More flexible
Answer: Option D
•
148. Vinyl flooring is done using sheets.
(A) Polypropylene
(B) PVC
(C) Polythene
(D) Polyvinyl acetate Answer: Option B
149. Hot drink (e.g., tea) cups are usually made of
(A) Polystyrene
(B) Polythene
(C) Polypropylene
(D) PVC
Answer: Option A
150. Main constituent of natural rubber is
(A) Polystyrene
(B) Polyisoprene
(C) Polybutadiene
(D) Poly chloroprene
Answer: Option B
151 is a copolymer.
(A) Nylon-66
(B) Polypropylene
(C) PVC
(D) Poly tetra fluoro ethylene
Answer: Option A
152. Peptizers like aromatic mercaptans (e.g. thiophenes) are added in rubber to

- (A) Protect rubber goods from attack by oxygen & ozone present in the atmosphere
- (B) Reduce its viscosity to permit easier processing
- (C) Reduce the time of vulcanisation and quantity of vulcanising agent (D) Increase its viscosity

Answer: Option B	
153. The inter particle forces between linear chains in nylon-66 are bonds (A) Hydrogen (B) Covalent (C) Ionic (D) None of these Answer: Option A	5.
154. Paper like thin plastic articles can be produced by (A) Blow moulding (B) Vacuum thermo forming (C) Injection moulding (D) None of these Answer: Option B	
155. Polypropylene is preferred to polythene, because the former is (A) Non-inflammable (B) Harder (C) Stronger (D) Both (B) & (C) Answer: Option D	
156. Plasticisers are added to synthetic plastics to (A) Impart flexibility (B) Improve workability during fabrication (C) Develop new improved properties not present in the original resin (D) All (A), (B) and (C) Answer: Option D	
157. Polystyrene is a light, transparent, thermoplastic material used for making (A) Toys and combs (B) Packaging bags (C) Non-sticking utensils (D) Electrical insulation Answer: Option A	
158. All thermoplastic, thermosetting & elastic materials can be processed in a extrus machine, however it cannot be used for the production of plastic (A) Filaments (B) Pipes (C) Buckets (D) Tubings Answer: Option C	ion
159. Rayon is superior to cotton in making gauge for wound treatment, because rayon (A) Is a synthetic polymer (B) Does not stick to the wound unlike cotton (C) Can absorb over 90% of its own weight of water (D) Both (B) and (C) Answer: Option B	1
160. Tubeless tyres are made of rubber, which is a co-polymer of isoprencisobutylene. (A) Nitrile (B) Silicone (C) Neoprene (D) Butyl Answer: Option D	e &
161. The repeating units of PTFE are (A) Cl ₂ CH-CH ₃ (B) F ₂ C = CF ₂ (C) F ₃ C-CF ₃ (D) FCIC = CF ₂	

Answer: Option B 162. Polymerisation process in which two or more monomers of chemically different nature take part is called (A) Copolymerisation (B) Addition polymerisation (C) Chain polymerisation (D) None of these Answer: Option A 163. Condensation polymerisation is not involved in the manufacture of (A) Teflon (B) Polythene (C) Terylene (D) Nylon Answer: Option B 164. Starting material for the production of SBR is (A) Ethyl alcohol (B) Ethylene (C) Both (A) & (B) (D) Neither (A) nor (B) Answer: Option C 165. Linear polymers are normally (A) Thermosetting (B) Thermoplastic (C) Elastometric (D) Having extremely high softening point Answer: Option B 166. The monomer of natural rubber is (A) DMT (B) Isoprene (C) 2 methyl-1 propane (D) Both (B) and (C) Answer: Option D _ polymer is produced by the copolymerisation of vinyl chloride-vinyl acetate. **167.** (A) Fibrous (B) Leathery (C) Rubbery (D) Hard Answer: Option B 168. Cellulose is the main constituent of most _____ fibres. (A) Acrylic (B) Spandex (C) Synthetic (D) Natural Answer: Option D moulding is used for shaping of thermosetting plastics exclusively. (A) Compression (B) Injection (C) Transfer (D) Extrusion Answer: Option C 170. Benzoyl chloride is not used as a catalyst in the manufacture of (A) Polystyrene (B) Polyvinyl acetate (C) Polypropylene

(D) Polyvinyl chloride-co-vinyl acetate

Answer: Option C

171. Pick out the wrong statement. (A) Polymeric fibres are never produced by addition polymerisation (B) Property of tackiness is exhibited by uncured rubber (C) Sharp melting point is not observed in thermoplastic polymers (D) Polythene generally has an excellent resistance to ultra violet rays Answer: Option A
172. Visco-elastic behaviour exhibited by plastics is a like behaviour. (A) Solid (B) Liquid (C) Combination of solid & liquid (D) Neither solid nor liquid Answer: Option C
173. Poly Vinyl chloride (PVC) is a material. (A) Thermoplastic (B) Thermosetting (C) Fibrous (D) Chemically active Answer: Option A
174. Molecular weight of a polymer is equal to the molecular weight of the repeat unit multiplied by the degree of polymerisation. What is the molecular weight of poly vinyl chloride (PVC), if its degree of polymerisation is 800? (A) 50000 (B) 51600 (C) 49200 (D) 50800 Answer: Option A
175. Polycaprolactam is nothing but (A) Orlon (B) Nylon-66 (C) Nylon-6 (D) Saran Answer: Option C
176 tubes are good substitute for human blood vessels on heart by-pass operation. (A) PVC (B) Polythene (C) Teflon/Dacron (D) Polystyrene Answer: Option C
177. Plasticisers are high boiling liquids added to plastic polymers to impart toughness and flexibility at ordinary temperature. Which of the following is not a plasticiser? (A) Ethylene glycol (B) Stearic acid estors (C) Tricresyl phosphate (D) Esters of phthalic acid Answer: Option A
178. Vulcanisation of rubber (A) Decreases its tensile strength (B) Increases its ozone & oxygen reactivity (C) Increases its oil & solvent resistance (D) Converts its plasticity into elasticity Answer: Option D
179. Which of the following polymers shows the highest anti-tacking properties? (A) Melamine formaldehyde resin (B) Phenolic resin (C) Epoxy resin (D) Alkyd resin

Answer: Option A
180. Trade name of is neoprene. (A) Polychlorophrene (B) Polyisoprene (C) Polytetrafluoroethylene (D) Poly vinyl acetate Answer: Option A
181. Which of the following is a polymer of Hexamethylene diamine and adipic acid? (A) Nylon-6 (B) Nylon-66 (C) Nylon-6, 10 (D) Epoxy resin Answer: Option B
182. Condensation of bisphenol A with phosgene produces which possess very good heat resistance. (A) Polyurethane (B) Polysulfone (C) Polycarbonate (D) Polyester Answer: Option C
183 is a thermosetting plastic. (A) PVC (B) Polythene (C) Bakelite (D) Polystyrene Answer: Option C
184. Which of the following low molecular weight (<10 ⁴), soft & waxy polymer is used in 'chewing gum'? (A) Cellulose acetate (B) Polyvinyl acetate (C) Thiokol (D) PVC Answer: Option B
185. Vulcanisation of rubber does not increase its (A) Elasticity (B) Plasticity (C) Ductility (D) None of these Answer: Option B
186. Dacron is a/an (A) Addition polymer (B) Condensation polymer (C) Polyester (D) Both (B) and (C) Answer: Option D
187. Phenol formaldehyde is produced by condensation polymerisation. It is also known as (A) Teflon (B) Bakelite (C) Polyester (D) Nylon-66 Answer: Option B
188. Dacron (or Treylene) fibres as compared to nylon fibres have (A) Better heat & acid resistant properties (B) Poorer resistance to alkalis (C) Poorer dyeability (D) All (A), (B) and (C)

Answer: Option D 189. Vulcanisation of rubber does not increase its (A) Softness (B) Oxidation resistance (C) Weight & strength (D) Elasticity & water solubility Answer: Option A 190. The major component of acrylic fibres is (A) Polyamides (B) Polyolefins (C) Polyacrylonitrile (D) Polyesters Answer: Option C is a natural fibre. (A) Cellulose (B) Dacron (C) Nylon-6 (D) None of these Answer: Option A 192. Zeigler - Natta catalyst (AlR₃ - AlCl₃) is used in the polymerisation of (A) Vinyl acetate (B) Vinyl chloride (C) Propylene (D) Styrene Answer: Option C 193. Synthetic rubber (A) Deforms, if stretched to double of its original dimension (B) Is brittle at low temperature (C) Is softer at higher temperature (D) Is highly permeable to air & water and is readily attacked by chemicals & atmospheric gases Answer: Option D _ is produced by polymerisation of chloroprene. (A) Thiokol (a polysulphide rubber) (B) Butyl rubber (C) Neoprene (D) Polyurethane rubber Answer: Option C 195. Which of the following is a natural polyamide fibre? (A) Wool (B) Silk (C) Cotton (D) None of these Answer: Option A 196. Thiokol is nothing but (A) Polysulphide rubber (B) Polyamide fibre (C) Engineering plastic

- (D) Expanded polystyrene

Answer: Option A

197. Which of the following is not a natural polymer?

- (A) Nucleic acids e.g. RNA and DNA
- (B) Polysaccharides
- (C) Polyisoprene
- (D) Polyurethane

Answer: Option D

prevented by adding	
1 0	
(A) Glycerol(B) Nitro cellulose	
(C) Camphor (D) None of these	
Answer: Option C	
Allswer. Option C	
199. Flexible foam (for mattresses) are usually made of	
(A) PVC	
(B) Silicone rubber	
(C) Polyurethanes	
(D) Polyamides	
Answer: Option C	
200. Neoprene is a	
(A) Monomer	
(B) Synthetic rubber	
(C) Polyester	
(D) None of these	
Answer: Option B	
201. Melt spinning of polymers involves the forcing of polymer melt through spinnerates (fin	10
holes) into an atmosphere kept at a temperature lower than the melting point of the polymer	
which causes the fine diameter polymer melt to harden into filaments. Melt spinning is not u	
in case of the fibres.	
(A) Acrylic	
(B) Polyester	
(C) Nylon 6:6	
(D) Polypropylene	
Answer: Option A	
202. Polymerisation of poly functional monomers produces polymers having	
(A) Good mechanical strength	
(B) Low viscosity	
(C) Low melting point	
(D) None of these	
Answer: Option A	
•	
203. Polycaprolactam is also known as	
(A) Nylon-66	
(B) Nylon-6	
(C) Teflon	
(D) SBR	
Answer: Option B	
204. β - glucose is the monomer of	
(A) Cellulose	
(B) Starch	
(C) Protein	
(D) None of these	
Answer: Option A	
205. The major constituent of laminate of safety glass, which holds the broken glass, pieces in	n
their places during accident (and thus minimises the danger from flying glass fragments) is	
(A) Polyvinyl alcohol	
(B) Polyvinyl acetate	
(C) Polyvinyl butyral	
(D) PVC	
Answer: Option C	
206 of SBR is adversely affected, if more quantity of styrene is added to butadic	ene
during its co-polymerisation to produce SBR.	
(A) Percent elongation	
(B) Resilience	

	O) Strength
Aı	nswer: Option B
205 D	
	Phthalic anhydride is used
	A) In making PVC
•	3) As plasticisers
•	C) In insecticides manufacture
	9) For making nylon-6
Ai	nswer: Option B
208.	is a homopolymer.
	Neoprene
(B	B) Bakelite
(C	C) Nylon-66
(D	O) Terylene
Aı	nswer: Option A
200 Т	The generic chemical name for the class of polymers which are commercially known as
nylon:	
	A) Polyolefins
	3) Polyamide
	Polyacrylate
	D) Polyurethane
	nswer: Option B
210. A	Acrylonitrile is mainly used in the industry.
(A	A) Polymer
(B	3) Printing
	C) Dyeing
(D	O) Photographic
Aı	nswer: Option A
211 E	Elastomers are
	(a) Thermosetting material
•	B) Exemplified by protein derivatives
	C) Having high flexural strength
	D) Having very high tensile strength and heat resistance
	nswer: Option C
212. P	Pick out the wrong statement.
(A	A) Polystyrene is a thermoplastic polymer
(B	3) Protein is a natural polymer
(C	C) Neoprene is a natural rubber
(D	O) Polythene is a copolymer, while SBR is a homopolymer
Aı	nswer: Option C
213 Т	Typical solvent polymerisation reaction conditions for the production of high density
	hene by Zeigler process is
	A) 7 kgf/cm ² and 70 °C
(B	3) 1000 kgf/cm ² and 100°C
(C	C) 7 kgf/cm ² and 700°C
	D) 1 kgf/cm ² (gage) and 70°C
	nswer: Option A
214 ~	. ,
	Silicone is a/an
	A) Monomer
	3) Inorganic polymer
(C	C) Thermoplastic material

215. Catalyst used in the production of high density polythene by low pressure Ziegler process is (A) Aluminium triethyl activated with $TiCl_4$

- (B) Platinum

(D) A natural polymer Answer: Option B

(C) Freezing point

(C) Moly	
(D) Nick	
Answer:	Option A
216.	fibres are made of polyamides.
(A) Dacr	
(B) Nylo	on a contract of the contract
(C) Rayo	on
(D) Orio	
	Option B
	ear polymer, the monomeric units are linked together to form long straight chains. nked or branched chain polymers compared to linear polymers have higher sities
(B) Melt	ing point
	ile strength
	lness, rigidity & brittleness
	Option D
initiation recreation is n (A) Silox (B) Polya (C) Viny (D) Urea	n growth polymerisation reaction consists of three different types of reaction namely action, propagation reaction & termination reaction. Chain growth polymerisation not involved in the manufacture of cane elastomers amides of polymers a-formaldehyde resins Option D
219. Therma	al pyrolysis of ethylene dichloride produces
(A) Trich	hloroethylene
(B) Viny	el chloride
(C) Ethai	nol amine
(D) Ethy	lene oxide
Answer:	Option B
220. Which	of the following is stretched into fibres?
	rated polyester
	aturated polyester
(C) Isopr	<u> </u>
(D) Bake	
	Option A
221. Melamithe	ine formaldehyde resin which has a very high anti tacking properties, is not used for
	trical insulation purpose
	ning of leather
	ngthening of plaster of Paris
` '	prative laminates
Answer:	Option C
222. Teryler	
` '	e as Dacron
(B) A po	
	(A) & (B)
	her (A) nor (B)
Answer:	Option C
into, a coagu	of wet spinning of polymers, the polymer solution is forced through spinnerates ulating bath to give a filament form. Wet spinning is not used in case of the fibres.
	ose rayon
(B) Acry	· · · · · · · · · · · · · · · · · · ·
	vinyl acetate
	rated polyester
` '	Option D

224. Which of the following is the lowest cost plastic commercially available?

- (A) Polythene
- (B) Teflon
- (C) Bakelite
- (D) PVC

Answer: Option A

225. Which of the following is not the commercial name of poly-methyl-methacrylate (PMMA)?

- (A) Perspex
- (B) Lucite
- (C) Plexiglass
- (D) Teflon

Answer: Option D

226. Bakelite (phenol-formaldehyde) resin cannot be used as

- (A) Decorative paint
- (B) Decorative laminates
- (C) Electrical insulation
- (D) Glass reinforced plastics

Answer: Option A

227. Thermosetting resins/polymers as compared to thermoplastic ones are

- (A) Soluble in all organic solvents
- (B) More brittle
- (C) Formed by addition polymerisation only
- (D) Easily reshaped & reused

Answer: Option B

228. Polycaprolactam is

- (A) Nylon-6
- (B) Nylon-66
- (C) Dacron
- (D) Rayon

Answer: Option A

229. Polyvinyl acetate is never used for making

- (A) Moulded articles
- (B) Fibres
- (C) Adhesives
- (D) All (A), (B) & (C)

Answer: Option A

230. Branched chain polymers compared to linear polymers have higher

- (A) Density
- (B) Tensile strength
- (C) Melting point
- (D) Degree of irregularity in atomic packing

Answer: Option D

231. In condensation polymerisation as compared to addition polymerisation

- (A) The monomers are unsaturated compounds
- (B) No co-product is lost
- (C) The monomers contain two functional groups
- (D) Generally only one monomer is involved

Answer: Option C

232. Polyvinyl chloride (PVC)

- (A) Is produced by Polycondensation reaction
- (B) Uses either emulsion or suspension polymerisation methods
- (C) Can be made thermosetting by adding a plasticiser
- (D) Softening temperature is 200°C

Answer: Option B

233. Scouring is a finishing operation during the manufacture of fibre, which aims at of fibres. (A) Improving the stretchability (B) Dyeing/colouring (C) Detergent solution washing (D) Glycol soaking Answer: Option C 234. Polyesters are manufactured by the Polycondensation reaction of (A) Dibasic acid with dihydric alcohol (B) A single monomer (C) Carboxylic acid with ethylene (D) Inorganic acid with ethylene glycol Answer: Option A 235. Condensation polymerisation of caprolactam is carried out in the reactor maintained at a temperature of °C for producing nylon-6. (A) -20 to 25(B) 50 to 75 (C) 100 to 150 (D) 250-280 Answer: Option D 236. Polyurethane cannot be used to make (A) Automobile cushion (B) Thermal insulation in refrigerator (C) Coating and adhesive (D) Fibre reinforced plastic (FRP) Answer: Option D 237. Density of low density polythene is about _____ gm/c.c. (A) 0.38(B) 0.56(C) 0.81(D) 0.91Answer: Option D 238. Thermosetting plastic materials (A) Can be repeatedly melted (B) Is useful for melt casting (C) Cannot be melted after forming (D) Is useful for spinning Answer: Option C 239. Poly-tetra-fluoro ethylene (PTFE) is known as (A) Dacron (B) Teflon (C) Bakelite (D) Celluloid Answer: Option B 240. Dacron is a (A) Condensation polymerisation product of Hexamethylene diamine and adipic acid (B) Condensation polymerisation product of dimethyl terephthalate (DMT) and ethylene glycol (C) Thermosetting material (D) None of these Answer: Option D

241. Nylon-66 is manufactured from

- (A) Adipic acid and Hexamethylene diamine
- (B) Caprolactam
- (C) Maleic anhydride and Hexamethylene diamine
- (D) Dimethyl terephthalate (DMT) and ethylene glycol

Answer: Option A

242. Conapside tubes for tooth paste are produced by extrusion.
(A) Direct
(B) Indirect
(C) Impact
(D) None of these
Answer: Option C
243. Properties of a polymer is affected by the
(A) Chain length
(B) Intermolecular forces
(C) Both (A) and (B)
(D) None of these
Answer: Option C
244. Which of the following polymers are produced by employing all bulk polymerisation, solution polymerisation & suspension polymerisation technique of addition (chain)
polymerisation?
(A) PVC
(B) Bakelite
(C) PTFE
(D) Epoxy resin
Answer: Option A
245. In a co-polymer, the repeating units contain two different monomers. Which of the following is a copolymer?
(A) PTFE
(B) Buna-S
(C) PMMA
(D) Polycaprolactam
Answer: Option B
246. Polymers are classified into four categories namely thermosetting, thermoplastic, elastomer and fibre depending upon their (A) Molecular sizes (B) Magnitude of intermolecular forces (C) Resistance to heat (D) Polymerisation mechanism Answer: Option B
247. In step growth polymerisation, condensation occurs in a stepwise manner with or without the elimination of smaller molecules. An example of step growth polymerisation product is (A) Terylene
(B) Polybutadiene
(C) PVC
(D) Polypropylene
Answer: Option A
248. Terylene is a/an
(A) Addition polymer
(B) Poly amide
(C) Homopolymer
(D) None of these
Answer: Option D
This wor. Option D
249. Polycondensation reaction of polymerisation(A) Does not produce linear polymers
(B) Produces only thermoplastic material
(C) Produces epoxy polymers
(D) Does not need any catalyst
Answer: Option C
The vol. option o
250. Polymethyl methacrylate (PMMA) which is also known as Perspex and is produced by bulk polymerisation of methyl methacrylate is not a polymer.
(A) Thermoplastic
(B) Thermosetting

(C) Linear	
(D) Glass like transparent	
Answer: Option B	
251. Cellulose content in bamboo fibre is about percent.	
(A) 10	
(B) 20	
(C) 50	
(D) 85	
Answer: Option C	
353	
is a copolymer.	
(A) Styrene butadiene rubber (SBR)	
(B) Neoprene	
(C) PVC	
(D) None of these	
Answer: Option A	
253. Pick out the wrong statement.	
(A) Addition polymers are generally formed by chain growth polymerisation	
(B) Condensation polymers are generally formed by step growth polymerisation	1
(C) Teflon is formed by step growth polymerisation	-
(D) Bakelite is formed by step growth polymerisation	
Answer: Option C	
Allswer. Option C	
254. Rain coats are made of	
(A) Neoprene	
(B) PVC	
(C) Polyurethane	
(D) SBR	
Answer: Option B	
255 William (64) - 6-11 - 25-2	
255. Which of the following is generally not drawn into fibre?	
(A) Polyamide	
(B) Unsaturated polyesters	
(C) Saturated polyesters	
(D) Polyacrylonitrile	
Answer: Option B	
256. Which of the following is not a natural fibre?	
(A) Silk	
(B) Viscose rayon	
(C) Wool	
(D) Cotton	
Answer: Option B	
257. Gutta percha rubber is	
(A) Soft & tacky at room temperature	
(B) An isomer of natural rubber	
(C) A thermosetting resin	
(D) Recovered by coagulation of rubber latex	
Answer: Option B	
This wor. Option B	
258. Rayon is a fibre.	
(A) Cellulosic	
(B) Polyamide	
(C) Polyester	
(D) Natural	
Answer: Option A	
	_

- 259. Chain growth polymerisation is a process, in which the monomers are added in a chain fashion, and it requires an initiator to produce the free radical. An example of chain growth polymerisation products is
 - (A) Nylon-66
 - (B) Teflon

(C) Polyester (D) Bakelite
Answer: Option B
260. The starting material used for the manufacture of caprolactam is (A) Ethyl benzene (B) Cyclohexane
(C) Ethylene glycol
(D) DMT
Answer: Option B
261. Which of the following is a copolymer?
(A) Polystyrene (B) SBR
(C) PTFE
(D) Polypropylene
Answer: Option B
262. The only natural thermoplastic resin, which is a product of animal life is (A) Rosin
(B) Shellac
(C) Amber (D) Copal
Answer: Option B
263. Size range of polymer molecules varies from metre. (A) 10 ⁻² to 10 ⁻⁵
(B) 10^{-4} to 10^{-7}
(C) 10^{-1} to 10^{-2}
(D) 10 ⁻⁸ to 10 ⁻¹⁰ Answer: Option A
Allswer. Option A
264. Nylon-66 is a polyamide of
(A) Hexamethylene diamine and adipic acid(B) Adipic acid and methyl amine
(C) Vinyl chloride and formaldehyde
(D) None of these
Answer: Option A
265. Polyhexamethylene adipamide is also known as
(A) Bakelite
(B) Nylon-66 (C) Epoxy resin
(D) Silicone rubber
Answer: Option B
266. Commercial production of polypropylene employs polymerisation.
(A) Emulsion
(B) Suspension (C) Solution
(D) Bulk
Answer: Option C
267. Thermoplastic materials
(A) Do not soften on application of heat(B) Are heavily branched molecules
(C) Are solvent insoluble
(D) None of these
Answer: Option D
268. Rexine (also called artificial leather), which is used for making table cover, automobile seat
cover, shoes etc. is made by coating thick cloth with molten
(A) Teflon (B) Bakelite

(C) SBR

(D) PVC	
Answer: Option D	
1	
269. Cross linked pol	ymers are
(A) Thermoplastic	
(B) Thermosetting	
(C) Either (A) or (
(D) Fibres only	2)
Answer: Option B	
Time were opened in	
270. Plexiglass (also	called Lucite) because of its high optical transparency is used for making
lenses. It is chemical	
	ethacrylate (PMMA)
(B) Polytetrafluro	
(C) Polycarbonate	· · ·
(D) Phenolic resin	
Answer: Option A	
1	
271. Nylon-66 compa	red to nylon-6 has
(A) Lower melting	
	resistant properties
(C) Higher hardne	
(D) All (A), (B) an	
Answer: Option C	
272. Nylon-6 is a	
(A) Polyamide	
(B) Thermosetting	resin
(C) Polyester	
(D) None of these	
Answer: Option A	
072 II	
	ockeries are made from polymers.
(A) Polystyrene	
(B) Melamine	
(C) Polystyrene	
(D) Polyurethane	
Answer: Option B	
274 Adinic acid is at	n intermediate in the manufacture of
(A) Perspex	intermediate in the manufacture of
(B) Nylon-66	
(C) Polystyrene	
(D) Bakelite	
Answer: Option B	
275. In step growth r	oolymerisation, generally only one type of reaction & some basic
	ed. Step growth polymerisation reaction is not involved in the manufacture
of	
(A) Cross linked p	
(B) Phenol formal	dehyde resins
(C) Polyesters	
(D) Polyamides	
Answer: Option A	
•	ne rubber is commercially manufactured by
(A) Bulk polymer	
(B) Suspension po	
(C) Solution polyr	nerisation
(D) Emulsion poly	
Answer: Option D	
•	

(A) Butyl rubber(B) Silicon rubber

(C) Nitrile rubber(D) Silicone rubberAnswer: Option D	
(B) Polymers made of more th(C) Vulcanised rubber is more	e monomer is called homopolymer an one monomer is called copolymer or mixed polymer
<u> </u>	d for the manufacture of refrigerator components and
transistor parts. (A) Polypropylene (B) Polystyrene (C) Polyester (D) Polyurethane Answer: Option B	
280 is not a condens	sation polymer.
(A) Teflon(B) Nylon-66(C) Dacron(D) PolystyreneAnswer: Option A	
281. Acrilan fibres used for mak melting polymeric material is no (A) Polyacrylonitrile (B) Polyamide (C) Saturated polyester (D) Alkyd resin Answer: Option A	ing cloth, carpet & blankets, which is a hard, horny & high thing but
282. Softening point of high dens	sity polythene is about °C.
(A) 85 (B) 135	
(C) 165 (D) 205	
Answer: Option B	
283. Styrene butadiene rubber (S) (A) Coated fabrics (B) Front wheel tyres of aerop (C) Gaskets (D) Soles of shoes Answer: Option B	
284. Which of the following is no	ot an elastomer?
(A) Polyisoprene	
(B) Neoprene (C) Nitrile-butadiene (D) None of these	
Answer: Option D 285. The process involved in con (A) Extrusion (B) Mastication (C) Calendaring (D) Vulcanisation Answer: Option C	verting rubber into a thin sheet or coating it on fabric is called

286. Thermosetting materials (A) Are cross-linked molecules

(B) Soften on application of heat (C) Are solvent soluble (D) None of these Answer: Option A 287. In nylon-6, the number 6 represents the total number of (A) Carbon atoms in the ring (B) Carbon atoms in the linear polymer chain (C) Nitrogen atoms in the ring (D) Hydrogen atoms in the ring Answer: Option B 288. Polymers are (A) Micro-molecules (B) Macromolecules (C) Sub-micromolecules (D) None of these Answer: Option B 289. Thermocol is a spongy, porous, rigid or flexible foamed plastic, obtained by blowing gas/air through molten (A) Saturated polyester (B) Polyurethane (C) Polystyrene (D) Either (B) or (C) Answer: Option D polythene is most prone to stress-cracking (A) High density (B) Low density (C) Cross-linked (D) Linear low density Answer: Option A 291. Which of the following is not a condensation polymer? (A) Bakelite (B) Melamine polymer (C) Poly-methyl-methacrylate (PMMA) (D) None of these Answer: Option C 292. Styrene which is a monomer for the production of polystyrene, is commercially produced by the (A) Catalytic dehydrogenation of ethyl benzene (B) Dehydration of ethyl alcohol followed by hydrogenation (C) Reacting ethylene oxide with acetaldehyde (D) Fermentation of starch Answer: Option A 293. Phenol formaldehyde (A) Employs addition polymerisation (B) Employs condensation polymerisation (C) Is a monomer (D) Is an abrasive material Answer: Option B 294. Most of the fibre forming polymers are crystalline in nature, one of the exceptions being which is amorphous in nature. (A) Nylon (B) Polyacrylonitrile (C) Polypropylene (D) Polyester Answer: Option B