01.	Which of the following is a n	natural polymer?		atmosphere of -	
	a) Protein	(b) Polythene		a) Hydrogen	(b) Nitrogen
	c) Buna-S	(d) Bakelite		c) Oxygen	(d) Neon
02.	The monomers used in the manufacture of nylon-66 are		13.	Perlon -L and Nylon-66 use	in -
	a) Sebacic acid and hexamethylene diamine			a) Fishing nets	(b) Tyrecord and ropes
	b) Adipic acid and butadien	e		c) Surgical sutures	(d) All of these
	c) Sebacic acid and butadiene			ε-caprolactum is condensed	product of
	d) Adipic acid and hexameth	ylene diamine		a) ε-caproic acid	(b) ε-aminocaproic acid
03.	PVC has the repeating unit -			c) Amino caproic acid	(d) ω-amino caproic acid
	a) Ethylene	(b) Tetrachloroethylene	15.	The molar ratio in which I	lexamethylene diamine and
	c) Vinyl chloride	(d) Acrylonitrile		adipic acid react is,	
04.	Nylon is,			a) 1:2	(b) 2:2
	a) Polyester fibre			c) 2:1	(d) None of these
	b) Polymide fibre	,	16.	Identify synthetic polymer ar	nong the following polymers
	c) Polythene derivative			a) PVC	(b) Protein
	d) Polyethylene methyl acry	late fibre	9000	c) Nucleic acids	(d) Cellulose
05.	Which one is a protein fibre ?		17.	The fibre orlon blended wit	h cotton fibre is known as.
	a) Cotton	(b) Rayon	and the second	a) Terywool	(b) Terycot
	c) Silk	(d) Polyester	O COLOR	c) Perlon-L	(d) Cots-wool
06.	Which of the following fibres are made of polyamides?		18.	Carbolic acid is used in the	preparation of
	a) Dacron	(b) Orlon	1	a) Nylon	(b) Bakelite
	c) Nylon	(d) Rayon	The section of the se	c) Polystyrene	(d) P. V. C.
07.	Bakelite is obtained from phenol by reacting with -			Of which of the following	g, glycol is an important
	a) Formaldehyde	(b) Acetaldehyde	and a second	constituent	
	c) Chlorobenzene	(d) Acetal	and the second	a) Dacron	(b) Acrilan
08.	Terylene is a condensation polymer of ethylene glycol			c) Teflon	(d) Rayon
	and -		20.	Transesterification of DMT	take place in presence of
	a) Phthalic acid	(b) Terephthalic acid	AND DESCRIPTION OF THE PERSON	a) Strong acid	(b) Strong base
	c) Benzoic acid	(d) Salicyile acid		c) Weak acid	(d) Weak base
09.	A polymer containing nitrogen is,		21.	Which is not related with te	rylene preparation -
	a) Bakelite	(b) Dacron		a) Zn-acetate	(b) Sb_2O_3
	c) Rubber	(d) Nylon - 66	O COLOR DE LA COLO	c) Vacuum	(d) Inert N ₂
10.	Which of the following is a bio-degradable polymer? 22		22.	The molecular formula of triolein is,	
	a) PVC	(b) Nylon - 6		a) $C_{51}H_{104}O_6$	(b) $C_{57}H_{104}O_6$
	c) Cellulose	(d) Polythene		c) $C_{57}H_{110}O_6$	(d) $C_{55}H_{104}O_6$
11.	The synthetic fibres are obtained by which of the		23.	Terycot is fibre	
	following reaction -			a) Semisynthetic	(b) Synthetic
	a) Hydrolysis	(b) Polymerisation	1	c) Polymerised	(d) Blended
	c) Dehydration	(d) Decomposition	24.	All are mono saccharide wi	
12.	Polymerisation of ε-caprola	ctum is carried out in inert		a) Glucose	(b) Galactose

1

	c) Sorbose	(d) Mannose				
25.	Glucose acts as -	(d) Mannose				
	a) Catalyst	(b) Reducing agent				
	c) Oxidising agent	(d) None				
26.		o not convert glucose into				
	glucitol -	mer convert gracesc mile				
	a) NaHg + water	(b) NaBH,				
	c) Red P + HCl	(d) ZnHg + water				
27.	Correct order of molecular weight					
	a) Peptones > proteose < Polypeptide					
	b) Peptones < proteose < Polypeptide					
	c) Peptones < proteose > I	Polypeptide				
	d) Peptones > proteose > Polypeptide					
28.	Glucose contain no of primary -OH groups and					
	no of secondary - OH groups					
	a) 1,2	(b) 1,5				
	c) 5, 1	(d) 1,4				
29.	All are proteolytic enzymes except -					
	a) Ptylin	(b) Pepsin				
	c) Trypsin	(d) Papain				
30.	Enzyme hydrolysis of protein is					
	 a) Slow and superficial 	(b) Fast and superficial				
	c) Slow and superior	(d) Fast and superior				
31. Which of the following is not a simp		not a simple protein -				
	a) Prolamine	(b) Collagen				
	c) Keratin	(d) None				
32.	Which of the following is considered as vegetable fat -					
	a) Castor oil	(b) Pine oil				
	c) Coconut oil	(d) Olive oil				
33.	Versatile fibre is					
	a) Terylene	(b) Nylon				
	c) PVC	(d) Teflon				
34.	On heating glucose with Fehling solution we get					
	precipitate whose colour is,					
	a) Red	(b) White				
	c) Blue	(d) Black				
35.	Temperature condition for terylene, Nylon 6 and Nylon-					
	66 for polymerisation are respectively.					
	a) 533 K, 573 K, 523 K	(b) 523 K, 573 K, 473 K				
	c) 573 K, 533 K, 553 K	(d) 473 K, 533 K, 553 K				

36. Proteins are -

a) Homopolymer

canesugar respectively are -

c) Co-polymer

	a) C ₆ H ₁₂ O ₆ , C ₁₂ H ₂₂ O ₁₁ & C ₁₈	H ₁₂ O ₁₆					
	b) $C_{12}H_{22}O_{11}$, $C_{6}H_{12}O_{6}$ & $C_{18}H_{32}O_{16}$						
	c) $C_{12}H_{12}O_{16}$, $C_6H_{12}O_6$ & $C_{18}H_{12}O_{16}$						
	d) None of these						
38.							
	by using -						
	a) 90% C ₂ H ₅ - OH & conc. HCl at 413 K						
	b) 90% C ₂ H ₅ - OH & dil. HCl at 333 K						
	c) 90% C ₂ H ₅ - OH & conc. HCl at 333 K						
	d) Either b or c						
39.							
	A) Monosaccharides and Oligosaccharides are sugars						
	while polysaccharides are n	onsugar					
	B) Sugars are sweet in taste	, water soluble & crystalline					
NO. SERVICE STANK	C) Non sugars are taste	eless, water insoluble &					
	amorphous	١,					
	D) Monosaccharides are b	asic units of carbohydrates					
	Among above incorrect star	tement is/are					
	a) A, B & C	(b) B, C & D					
	c) A, C & D	(d) None					
40.	. Which one of the following						
	a) Bakelite	(b) Nylon -66					
1000	c) Dacron	(d) All of these					
41.							
	a) Polyester	(b) Condensation					
	c) Polyamide	(d) Both 'a' and 'b'					
42.	The state of the state of the state of						
	a) Their occurance in nature						
	7 PT	b) Their physical and chemical properties					
	c) Nature of reactant and c	hemical properties					
43	d) None of these						
43	ST Transport	on-L, the monomer is heated					
-	at about-	(L) 422 V					
and the same	a) 533 K	(b) 433 K					
14	c) 633 K	(d) 593 K					
44		15,					
-	a) HOOC - (CH ₂) ₂ - COOH						
	b) HOOC - (CH ₂) ₃ - COOH						
Colonic Charles	c) HOOC - (CH ₂) ₄ - COOH						
1.	d) HOOC - CH ₂ - COOH	v.					
45	5. Adipic acid is acid.	(h) Dibasis					
OF STREET	a) Monobasic	(b) Dibasic					
	c) Tribasic	(d) Tetrabasic					
46	6. Nylon-66 contains	. IInkages.					

a) - COO -

(b) Heteropolymers

(d) Elastomers

37. The chemical composition of lactose, maltose &

(b) - NH -

c)	- (0)	N	ŀ	1

(d) - CO -

47. The polymerisation of hexamethylene diammonium adipate is carried out in .. atm

a) Vaccum

(b) Inert N,

c) Inert O,

(d) Inert H,

48. In USA terylene is also called -

a) Dacron

(b) Perlon-L

c) P.V.C.

(d) Protein

49. Which of the following substance is consumed and regenerated during the preparation of terylene -

a) Adipic acid

(b) Methyl alcohol

c) Ethylene glycol

(d) Propylene glycol

50. Physical properties of nylon-6 and nylon-66 are -

a) These are tough and elastic

b) These are chemically inert

c) These are wrinkle proof

d) All of these

51. In the raw material adipic acid and hexamethylene diamine, both contains six carbon atoms, hence obtained from these are termed as -

a) Nylon-6

(b) Nylon -66

c) Terylene

(d) Both 'a' and 'b'

52. In Nylon-66 indicates its monomer contains...

a) Six hydrogen atoms

(b) Six carbon atoms

c) Both 'a' and 'b'

(d) None of these

53. Molecular weight of ε-caprolactum is,

a) 114

(b) 113

c) 115

(d) 112

54. Which of the following fibre is made of polymide?

a) Dacron

(b) Nylon

c) Orlon

(d) Rayon

55. Which is not other name of Dacron

a) Terylene

(b) Terene

c) Orlon

(d) Perlon-L

56. Which is not condensation polymer.

a) Nylon-6

(b) Dacron

c) Nylon - 66

(d) Cellulose

57. The ratio in gram of hexamathylene diamine and adipic acid, in which they react is

a) 56:73

(b) 58:146

c) 116:73

(d) 58:73

58. The molar ratio in which Hexamethylene diamine and adipic acid react is,

a) 1:2

(b) 2:2

c) 2:1

(d) None

59. ε-caprolactum is a starting material for -

a) Rayon

(b) Nylon-6

c) Terylene

(d) Nylon-66

60. Chemically treated cellulose is known as -a) Regenerated fibre (b) Semi-sy

(b) Semi-synthetic fibre

c) Either of these

(d) None of these

61. Nylon fibres possess which of the following properties -

a) They are strong and tough fibres

b) They have good elasticity and tensile strength

c) They are crease resistant

d) All of these

62. A molecule or group of molecules when repeated to get a polymer is termed as -

a) Monomer

(b) Repeating Unit

c) Dimer

(d) None of these

63. Which one of the following fibre contains protein units in their molecule -

a) Cotton

(b) Wool

c) Nylon

(d) Terylene

The IUPAC name of ω-amino caproic acid is,

a) 5-amino-hexanoic acid

(b) 4-amino hexanoic acid

c) 6-amino hexanoic acid

(d) 1-amino hexanoic acid

65. Natural silk is,

a) Polyester

(b) Polyamide

c) Polyacid

(d) Polysaccharide

66. For filtration of chemicals, the cloth used is made up of

a) Polyamide

(b) Polyester

c) Polyethylene

(d) Nylon

67. The polyester obtained by trans- esterification is,

a) Nylon-6

(b) Nylon-66

c) Dacron

(d) Perlon

68. Cellulose (cotton) is built up of many -

a) Fructose unit

(b) Glucose unit

c) Both 'a' and 'b'

(d) None of these

69. In Germany nylon-6 is called as -

a) Homopolymer

(b) Terene

c) Dacron

(d) Perlon -L

70. The general advantages of synthetic fibres are -

a) High tensile strength

b) Wrinkle resistance

c) It absorbs less amount of water, hence dry quickly

d) All of these

71. A polymer containing only one type of monomeric units is calledand, if it contains more than one type of monomeric units is called....

	a) Heteropolymer, homopolymer		83.	In preparation of Terylene the biproduct obtained is		
	b) Homopolymer, heteropol	ymer		a) Methanol		
	c) Monomers, polymers		1	b) Ethanol		
	d) Both 'a' and 'b'		1	c) Ethanol and Methanol		
72.	A good quality fibre is supp	posed to have -		d) Ethylene glycol and meth	nanol	
	a) Good length		84.	to the second forms		
	b) Low denier (weight per u	init length)		monomer with the help of		
	c) Low crimp (curl or wavir	iess)	of the party	a) Ionic bond		
	d) All of these			b) Covalent bond		
73.	The quality of fibre is decid	ed by the parameters like -		c) Ionic and covalent bond		
	a) Length	(b) Tensile strength		d) All of these		
	c) Crimp	(d) All of these	85.	Nylon is generic name for		
74.	Repetition of amide linkage	takes place in	-	a) Polyamides	(b) Polyester	
	a) Nylon-6	(b) Nylon-66		c) Poly ethene	(d) Poly Vinyl chloride	
	c) Terylene	(d) Both 'a' and 'b'	86.	Which polyamide polymer o	n hydrolysis gives α-amino	
75.	Chemical name of pure cotte	on is,	-	acid -		
	a) Jute	(b) Cellulose		a) Silk	(b) Jute	
	c) Both 'a' and 'b'	(d) None of these		c) Nylon-6	(d) Nylon-66	
76.	Tyre-cords are made of		87.	What type of polymer is sho	own by following segment	
	a) Nylon-66	(b) Rayon	The state of the s	-COO-CH ₂ CH ₂ -[C ₂ H ₄]	-COO-CH ₂ CH ₂ O-	
	c) Terylene	(d) None of these		a) Polymide	(b) Polyester	
77.	Nylon fibre first made in		-	c) Polyolefin	(d) Polyethylene	
	a) Japan	(b) England	88.	Formaldehyde is used in the	manufacture of	
	c) Russia	(d) America	and the same of th	a) Teflon	(b) Bakelite	
78.	Artificial fibres are drip drie	ed because they -		c) Gammexane	(d) Dynamite	
	a) Lose water easily		89.	Of which of the following, glycol is an impo		
	b) Do not absorb water		ST-SECTION ST	constituent		
	c) Do not react with water			a) Dacron	(b) Acrilan	
	d) Can not become wet with	water		c) Teflon	(d) Rayon	
79.	ε-caprolactum has as a ring	structure, which is,	90.	Synthetic fibres are prepared	d by -	
	a) Homocyclic six - member	ed		a) Reduction	(b) Oxidation	
	b) Heterocyclic six - membe	red	ł	c) Combustion	(d) Polymerization	
	c) Homocyclic seven - membered		91.	Polymers containing more t	than one kind of monomer	
	d) Heterocyclic seven - membered			unit are called -		
80.	Terylene is known as polyes	ster because -		a) Polypolymer	(b) Copolymer	
	a) It is made up from DMT			c) Multipolymer	(d) Sec. polymer	
	b) It is made up from ethylene glycol and DMT		92.	Select the animal fibre?		
	c) It is ester of dibasic acid		4	a) Cotton	(b) Rayon	
	d) It contains repeatative ester linkage in chain			c) Nylon	(d) Silk	
81.			93.	Regenerated fibre among the	e following is,	
	a) One	(b) Two		a) Nylon - 6	(b) Nylon - 66	
	c) Three	(d) Four		c) Viscose rayon	(d) Terylene	
82.	Wool is also known as -		94.	Natural silk is,		
	a) Karotin	(b) Keratin		a) Polyacid	(b) Polyester	
	c) Fibrion	(d) Linen		c) Polysaccharide	(d) Polyamide	
					2000 000	

4

 a) For 4 - 5 hrs at 8 atm pressure and 553 - 573 K Which one of the following is incorrect? a) Nylon - 6 is obtained by polymerisation of amino b) For 5 hrs at 7 atm pressure and 503 K c) For 1 hrs at 5 atm pressure and 533 K caproic acid d) For 4 hrs at 4 atm pressure and 403 K b) Rayon is semi synthetic fibre 106. Which of the following is used to prepare tooth brush c) Terylene has low moisture absorption property d) Terylene has high tensile strength bristles? 96. Fibre used in making magnetic recording tape is, a) Viscose rayon a) Nylon - 6 (b) Nylon - 66 c) Nylon - 66 107. The fibre which is resistant to action of chemicals is, c) Terylene (d) Viscose rayon 97. When condensation of hexamethylenediamine and adipic a) Cotton acid is heated to 553 K (280°C) in an atmosphere of c) Jute 108. Which of the following is NOT a cellulose product? nitrogen for about 4 - 5 hours, the product obtained is, a) Solid polymer of nylon 66 a) Gun cotton b) Liquid polymer of nylon 66 c) Rayon 109. Starting chemicals used for manufacturing terylene are c) Gaseous polymer of nylon 66 a) Adipic acid and hexamethylene diamine d) Liquid polymer of nylon 66 b) Adipic acid and hexamethylene tetramine 98. Starting compound for nylon - 6 is, c) Dimethyl terephthalate and ethylene glycol (b) α - amino acids a) ε - caprolactum d) Dimethyl terephthalate and propylene glycol (d) None of these c) ω - amino acids 110. Transestrification product of ethylene glycol and DMT 99. The molecular formula of ε - caprolactum is, (b) C,H,,ON a) C.H., ON a) Dihydroxy diethyl terephthalate (d) C₆H₁₃OH c) C,H,,ON b) Hydroxydiethyl terephthalate 100. Polycaprolactum is, c) Trihydroxy diethyl terephthalate (b) Nylon - 66 a) Polyester fibre d) Dihydroxy ethyl terephthalate (d) Terycot c) Nylon - 6 111. Dimethyl terephthalate is an ester of -101. Nylon - 66 is a / an a) Phthalic acid a) Addition polymer c) Caproic acid b) Condensation polymer 112. The total number of carbon atoms present in the starting c) Addition condensation of polymer d) Condensation polyamide 102. Which of the following contains nitrogen? a) 6 c) 10 (b) Teflon a) Nylon (d) PVC c) Terylene 103. Caprolactum is a monomer of Nylon - 6. It can be obtained a) Dacron from -(b) Benzene a) Cyclohexane (d) Adipic acid c) ω - aminocaproic acid 104. Adipic acid is produced by - a) Oxidation of cyclohexane only b) Oxidation of benzene c) Air oxidation of cyclohexane and further oxidation of c) Nylon the products formed by dil. HNO, a) Hair d) Both 'a' and 'b'

the salt is heated in an autoclave

materials used for terylene are -(b) 8 (d) 12 113. Which of the following is a condensation polymer? (b) PVC (d) Teflon c) Polystyrene 114. Which of the following has an ester linkage? a) Bakelite (b) Nylon (d) PVC c) Terylene (MHT-CET 2008) 115. Terylene is, a) Polyamide (b) Polyester (d) Polypeptide 116. Which one of the following is a cellulose fibre? (b) Cotton 105. For polymerisation of nylon salts to obtain Nylon - 66, (d) Silk c) Wool 117. Among the following, which one is obtained by chemical

(b) Acetate rayon

(d) Terylene

(d) Terylene

(b) Celluloid

(d) Dacron

(b) Terephthalic acid

(d) Oxalic acid

(b) Silk

treatment on cotton fibre is.

a) Wool

- (b) Acetate rayon
- c) Terywool
- (d) Nylon-6
- 118. Nylon 6 and Nylon 66 have same
 - a) Molecular weight
- (b) Empirical formula
- c) Molecular formula
- (d) Structural formula
- 119. The molecular formula C₂H₄O₂ represents two isomers A and B. A gives effervescence of a colourless gas with washing soda while B on treatment with methyl magnesium iodide gives an aldehyde. A and B are respectively.
 - a) Acetic acid and methyl formate
 - b) Formic acid and methyl acetate
 - c) Methyl formate and acetic acid
 - d) Methyl acetate and formic acid
- 120. DMT is obtained form terephthalic acid by
 - a) Hydrolysis
- (b) Oxidation
- c) Esterification
- (d) Stretching
- 121. The natural silk is a
 - a) Polyamide
- (b) Polysaccharide
- c) Polyester
- (d) Polystyrene
- 122. Which of the following statement is incorrect?
 - a) Nylon 6 is polyamide polymer
 - b) Terylene has high tensile strength
 - c) Rayon is semi synthetic fibre
 - d) Terylene is addition polymer
- 123. Nylon 66 belongs to the class of
 - a) Addition polymer
 - b) Addition homopolymer
 - c) Condensation polymer
 - d) Condensation heteropolymer
- 124. Out of viscose Rayon (I), cuprammonium silk (II), terylene (III) and acetate rayon (IV) the regenerated fibre
 - (s) is / are
 - a) Only I and II
- (b) Only II, III and IV
- c) Only I, II and IV
- (d) Only II and III
- 125. The formula $C_{12}H_{26}O_4N_2$ represents
 - a) Nylon 66
- (b) Nylon salt
- c) Poly caprolactum
- (d) Polyamide fibres
- 126. Regenerated fibres have superior physical properties because
 - a) They are fresh fibres
 - b) They are chemically treated fibres
 - c) They are obtained naturally
 - d) None of these

Answer Keys

01. (a) 02. (d) 03. (c) 04. (b) 05. (c) 06. (c) 07. (a) 08. (b) 09. (d) 10. (c) 11. (b) 12. (b) 13. (d) 14. (d) 15. (b) 16. (a) 17. (b) 18. (b) 19. (a) 20. (d) 21. (d) 22. (b) 23. (d) 24. (c) 25. (b) 26. (d) 27. (c) 28. (d) 29. (a) 30. (c) 31. (d) 32. (c) 33. (b) 34. (a) 35. (c) 36. (b) 37. (d) 38. (c) 39. (d) 40. (d) 41. (d) 42. (a) 43. (a) 44. (c) 45. (b) 46. (c) 47. (b) 48. (a) 49. (c) 50. (d) 51. (b) 52. (b) 53. (b) 54. (b) 55. (d) 56. (d) 57. (d) 58. (b) 59. (b) 60. (c) 61. (d) 62. (a) 63. (b) 64. (c) 65. (b) 66. (b) 67. (c) 68. (b) 69. (d) 70. (d) 71. (b) 72. (d) 73. (d) 74. (d) 75. (b) 76. (a) 77. (d) 78. (a) 79. (d) 80. (d) 81. (b) 82. (b) 83. (d) 84. (b) 85. (a) 86. (b) 87. (d) 88. (b) 89. (a) 90. (d) 91. (b) 92. (d) 93. (c) 94. (d) 95. (a) 96. (c) 97. (b) 98. (a) 99. (a) 100. (c)

101. (b) 102. (a) 193. (c) 104. (c) 105. (a) 106. (c) 107. (d) 108. (d) 109. (c) 110. (a) 111. (b) 112. (d) 113. (a) 114. (c) 115. (b) 116. (b) 117. (b) 118. (b) 119. (a) 120. (c) 121. (a) 122. (d) 123. (d) 124. (c) 125. (b) 126. (b)