PART 10 - TEXTILE TECHNOLOGY

(Answer ALL questions)

- 76. The tensile strength of polynosic fibre is around
 - 1. 3 to 3.5 gmsldenier
 - 2. 8 to 10 gms/denier
 - 3. 12 to 14 gmsldenier
 - 4. 0.5 to 1 gm/denier
- 77. In viscose solution preparation xanthation process takes normally from
 - 1. 10 minutes
 - **2**. 60 to 180 minutes
 - **3.** 5 hours
 - 4. 24 hours
- 78. The temperature of molten polymer in nylon 66 manufacture is around
 - 280 to 300°C
 - 2. 100°C
 - 27°C
 - 4. 120°C
- 79. In acrylic fibre manufacture, the polymer concentration ranges from
 - 1. 2 to 5 %
 - 2. 15 to 40 %
 - 3. 80 to 90 %
- 4. 70 to 80 %
- 80. The work factor of viscose staple fibre is around
 - 1. 0.62
 - 2. 0.2
 - 3. 0.1
 - 4. 0.4

- 81. The tenacity range of acrylic fibre in gmsldenier is
 - 1. **1.0** to 1.2
 - 2. 5.0 to 5.2
 - 3. 2.2 to 3.5
 - 4. 10 to 10.2
- 82. The modern false twist texturizing machines can impart false twist in to moving yarn a t the rate of
 - 1. **upto** six million RPM
 - 2. 1 2 million RPM
 - **3.** only **upto** 30,000 RPM
 - 4. upto 1 lakh RPM only
- 83. High bulk yarns are produced from
 - 1. relaxed fibres
 - 2. unrelaxed fibres
 - 3. a blend of relaxed and unrelaxed fibres
 - 4. filaments
- 84. The cord fabrics used in conveying belt applications approximately weigh
 - 1. 1 kg/sq.metre
 - 2. 100 gms/sq.metre
 - 3. 25 kg/sq.metre
 - 4. 25 kg/sq.cm
- 85. The cotton cloth construction normally applied in V-belts in and is ends/inch. picks/inch
 - 1. 23×4
 - $2. \quad 30 \times 10$
 - $3. \quad 50 \times 50$
 - $4. \quad 12 \times 12$

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on

- 86. The standard **breaking** strength of nylon parachute cloth in **kgs/cm** width is
 - 1. 2 to 3
 - 2. 7 to 10
 - 3. 25 to 30
 - 4. 50 to 100
- 87. The number of twistslmetre involved in high stretch yarns is around
 - 1. 100
 - 2. 2500
 - 3. 500
 - 4. 250
- 88. An unbalanced structure in weft knitting process is
 - 1. Polka rib
 - 2. Royal rib
 - 3. Eight lock
 - 4. Derby rib
- 89. In Jacquard knitting the maximum design width of intermediate Jacquard is
 - 1. 48 wales
 - 2. 24 wales
 - **3.** 144 wales
 - 4. 182 wales
- 90. The normal cut of the non-Jacquard knitting

machine is around

- 1. 24
- 2. 48
- **3.** 72
- 4. 88

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- 91. Knitted fabric width is expressed as
 - 1. Total number of needles x wales per inch
 - Total number of needles / wales per inch
 - Total number of needles wales per inch
 - 4. Wales per inch Total no. of needles
- 92. According to **Tompkin's** law which of the following relations is correct in weft knitting?
 - $1. K_S = l^2/S$
 - $2. S = \frac{K_S}{l^2}$
 - $3. K_S = l^2 + S$
 - $4. \qquad l^2 + K_S = S$

where S = Stitch density

 K_{S} is constant

l = Stitch length

- 93. In purl knitting machine the two needle beds are set a t
 - 1. 60°
 - 2. **120°**
 - 3. 180°

90°

- -320From tricot knitting machine the fabric cones off the machine at an angle of
- 3 120°
 - . 180°
- 94.
- 01.
 - 2.

- 95. The width of Raschel machines varies from
 - 1. 480 to 600 cm
 - 2. 200 to 350 cm
 - 3. 1000 to 1500 cm
 - 4. 150 to 200 cm
- 96. In the dielectric phenomenon of fibres water is considered to be
 - 1. Induced dipole
 - 2. Permanent dipole
 - **3.** Temporary dipole
 - 4. An ordinary molecule
- 97. The percentage amorphous region in wool fibre is around
 - 1. 44
 - 2. 20
 - 3. 65
 - 4. 25
- 98. Higher the bi-refringence of a fibre
 - 1. higher will be the orientation
 - 2. lower will be the orientation
 - 3. higher will be the amorphous portions
 - 4. higher will be the crystallinity
- 99. The optical orientation factor of an isotropic fibre is
 - 1. 0.8
 - 2. 0.21
 - 3. 0
- 100. With increase in relative humidity, the 4. 1 strength of wool fibre
 - 1. increases
 - 2. decreases
 - **3.** first increases and then decreases
 - 4. does not change

- 101. The best synthetic fibre for good elastic recovery is
 - 1. Polyester
 - 2. Nylon
 - 3. Acrylic
 - 4. Polypropylene
- 102. The % absorption moisture regain of nylon 6.6 at 65% R.H. and 20°C is
 - 1. 4.1
 - 2. 2.1
 - **3.** 8.0
 - 4. 0.4
- 103. The chemical potential of a solute in an ideal solution may be expressed as
 - 1. $A = \mu + RT \ln C$
 - 2. $C = A + RT \ln \mu$
 - 3. $\mu = A + RT \ln C$
 - 4. $R = A + T \ln C$
- 104. The reactive dyeing process for 100 % cotton garment involves duration of dyeing as
 - 1. 1 to 2 hours
 - 2. 2 to $2\frac{1}{2}$ hours
 - **3. 3** to 4 hours
 - 4. 5 to 6 hours
- 105. The interfibrillary swelling takes place in
 - 1. water solution
 - acid and strong alkali solution
 - 3. water and weak alkali solution
 - 4. alkali solution
- 106. The heat of for cotton fibre is
 - 1. 17.9

combustion

 kJg^{-1}

- 2. 18.2 kJg^{-1}
- 3. 16.3 kJg^{-1}
- 4. 27.8 kJg^{-1}

- 107. The simple test for mercerization of cotton is
 - 1. Examining under sunlight
 - 2. Examining under U.V. light
 - 3. Examining through microscope
 - 4. Examining through infra-red light
- 108. The cross-section of cotton fibre changes due to mercerization from
 - 1. Flat shape to oval shape
 - 2. Bean shape to round shape
 - 3. Round shape to elliptical shape
 - 4. Elliptical shape to bean shape
- 109. The removal of sericine results in a weight loss of silk by
 - 40 to 75 % 1.
 - 2. 70 to 90 %
 - 3. 20 to 25 %
 - 4. 12 to 17 %
- 110. The california bearing ratio resistance in geotextiles is expressed as
 - CBR resistance = failure load / cross-1. sectional area
 - 2. CBR resistance = cross-sectional area failure load
 - CBR resistance = failure load x cross-**3.** sectional area
 - 4. CBR resistance = cross-sectional area failure load

- 111. The top roller of two bowl calender used for calendering process is made of
 - 1. hard plastic
 - 2. hard steel
 - 3. soft paper
 - 4. wood
- 112. Which one of the following fibres is not used for the production of tyre cord?
 - 1. Viscose rayon
 - 2. Glass
 - 3. Polyester
 - 4. Silk
- 113. The stelometer is made of CRL system by
 - 1. step synchronous motor
 - 2. dashpot damping device
 - 3. cam drive
 - beam design 4.
- 3 % trash in mixing the cleaning 114. For efficiency expected in blowroom is
 - 65 % 1.
 - 2. 35 %
 - 3. 80 %
 - 25 % 4.
- 115. In single yarn tensile strength test, higher ——will result
 - lower the strength
 - 1. 2. no change in strength
 - higher the strength **'3.**
 - 4. no change in extension

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