

TX

PART - A

It consists of 1 - 40 questions.

1. If
$$\begin{vmatrix} x+2 & 5 \\ 0 & x-2 \end{vmatrix} = 0$$
, then $x =$

(1) 1

(2) 2

(3) 3

- (4) 0
- 2. In solving the equations by Cramer's rule for 5x 3y = 1 and 2x 5y = -11, the value of x and y is
 - (1) (3, 2)

(2) (-3, -2)

(3) (2,3)

- (4) (-2, -3)
- 3. If $A = \begin{bmatrix} 2 & 0 & 0 \\ 1 & 2 & 0 \\ 1 & 1 & 2 \end{bmatrix}$ then A adj A is
 - (1) Diagonal

(2) Scalar

(3) Identity

- (4) Zero matrix
- 4. The minor of the element 6 in a matrix $A = \begin{bmatrix} 2 & -3 & 0 \\ 4 & 1 & 6 \\ 3 & 2 & 0 \end{bmatrix}$ is
 - (1) 10

(2) 11

(3) 12

- (4) 13
- 5. The characteristic equation of the matrix $A = \begin{bmatrix} 5 & -3 \\ 2 & 1 \end{bmatrix}$ is
 - (1) $\lambda^2 6\lambda + 11 = 0$

(2) $\lambda^2 - 6\lambda - 11 = 0$

(3) $\lambda^2 + 6\lambda + 11 = 0$

 $(4) - \lambda^2 + 6\lambda = 0$

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- 6. The fourth term in the expansion of $(\sqrt{3} + 2)^7$ is
 - (1) 2520

(2) - 2520

(3) 1/2520

- (4) 1/2520
- 7. The constant term in the expansion $(x^2 + 1/x)^{12}$ is
 - (1) 495

(2) 495

(3) 1/495

- (4) 945
- 8. The projection of vector (3, 1, 3) on vector (1, -2, 1) is
 - (1) $2\sqrt{6}/5$

(2) $-2\sqrt{6}/3$

(3) $2\sqrt{6}/3$

- $(4) -2\sqrt{6}/5$
- 9. If vector a = (1, 1, 1) and vector b = (2, 2, 1) then magnitude of vector $a \times b$ is
 - (1) $\sqrt{26}$

(2) $\sqrt{28}$

(3) $\sqrt{24}$

- (4) 1
- 10. The cosine of the angle between the vectors (3, -1, 1) and vector (1, 1, -1) is
 - (1) $1/\sqrt{11}$

(2) $-1/\sqrt{33}$

(3) $1/\sqrt{33}$

- (4) $-1/\sqrt{11}$
- 11. The value of $(\sec^6 x \tan^6 x)$ is
 - (1) $1 3 \sec^2 \times \tan^2 x$
 - (2) $1 + \tan^2 \times \sec^2 x$
 - (3) $1 + 3 \sec^2 \times \tan^2 x$
 - (4) $1 \tan^2 \times \sec^2 x$

18. The value of $(\tan^{-1} 5/6 + \tan^{-1} 1/11)$ is

(1) 30°

 $(2) 60^{\circ}$

(4) 1

 $(3) 90^{\circ}$

 $(4) 45^{\circ}$

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- 19. If the points (-3, K), (5, 7) and (-11, 1) are collinear, then the value of K is
 - (1) 4

(2) 3

(3) 2

- (4) 1
- 20. The ratio of the line join of the points (2, 3) and (-5, 6) divided by y axis is
 - (1) 5:2

(2) 2:5

(3) 3:2

- (4) 2:3
- 21. Three vertices of a triangle are (-2, 3, 1), (-1, 4, 2) and (-6, 5, 2), then the centroid of the triangle is
 - (1) (-3, 4, 1)

(2) (0, 5/3, 1/3)

(3) (4, 3, 1)

- (4) (-3, -4, -2)
- 22. The equation to the straight line passing through (3, 2) and perpendicular to the line 5x + 2y 3 = 0 is
 - (1) 2x 5y 4 = 0
 - (2) 2x 5y + 4 = 0
 - (3) 2x + 5y + 4 = 0
 - (4) 5x 2y + 4 = 0
- 23. The slope of a line passing through the points (-4, -5) and (2, 3) is
 - (1) 3/4

(2) - 3/4

(3) 4/3

- (4) 4/3
- 24. The acute angle between the lines 2x y + 3 = 0 and x 3y + 2 = 0 is
 - (1) 30°

(2) 60°

(3) 90°

(4) 45°

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- 25. The value of $\lim_{n\to\infty} [(3-n)(4-n)(2n-5)]/(4n^3-3)$
 - (1) 1/2

(2) 1/2

(3) 3/2

- (4) 3/2
- 26. The value of $\lim_{x\to -3} (x^4 81) / (x^3 + 27)$ is
 - (1) 3

(2) - 3

(3) 4

(4) - 4

- 27. $d/dx \left(\sqrt{\sin^2 x}\right)$ is
 - (1) cos x

(2) sin 2x

(3) $\cos^2 x$

- (4) $\sqrt{\cos x/\sin x}$
- 28. $d/dx tan^{-1} \sqrt{(1-\cos 2x)/(1+\cos 2x)}$ is
 - (1) 1

(2) 0

(3) tan x

(4) cos x

- 29. If $y = \sin x^x$ then dy/dx is
 - (1) x log sin x
 - (2) cos x^x
 - (3) $\sin x^x (x \cot x + \log \sin x)$
 - (4) $\cos x^x (x \tan x + \log \sec x)$
- 30. $d/dx \left(sin h^{-1} x \right)$ is
 - (1) $1/\sqrt{1+x^2}$

(2) $1/\sqrt{1-x^2}$

(3) $1/\sqrt{x^2-1}$

(4) $1/\sqrt{x^2+1}$



- 31. The equation to the normal to the curve $y = 5x^2 + 4x 11$ at the point (-1, 2) is
 - (1) x 6y + 11 = 0
 - (2) x + 6y 11 = 0
 - (3) 6x y + 11 = 0
 - (4) 6x + y 11 = 0
- 32. The volume of a sphere is increasing at the rate of 4π c.c/sec, then the rate of increase of the radius is when the volume is 288 π cc
 - (1) 6 cm/sec

(2) 1/6 cm/sec

(3) 1/36 cm/sec

(4) 36 cm/sec

- 33. $\int \sin^2 x \, dx$ is
 - (1) $\cos x + c$

(2) $x/2 - (\sin 2x)/4 + c$

(3) $x/2 + (\cos 2x)/4 + c$

- (4) x/2 + (sin 2x) / 4 + c
- 34. $\int (3x^2 + x 1)^6 (6x + 1) dx$ is
 - (1) $6(3x^2 + x 1)^5 + c$

(2) $(3x^2 + x - 1)^6 + c$

(3) $(3x^2 + x - 1)^7 / 7 + c$

 $(4) (3x^2 + x - 1)^7 / 21 + c$

- 35. $\int \tan^{-1} x \, dx$ is
 - (1) $x \tan^{-1} x 1/2 \log (1 + x^2) + c$
 - (2) $x \tan^{-1} x + 1/2 \log (1 + x^2) + c$
 - (3) $\tan^{-1} x 1/2 \log (1 + x^2) + c$
 - (4) $\tan^{-1} x + 1/2 \log (1 + x^2) + c$

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sin 3x cos 2x dx is 36.

(1) 3/5

(2) - 3/5

(3) 5/3

(4) - 5/3

37. $\int_{1}^{2} (x-1)(x-2) dx$ is

(1) 2/3

(2) - 2/3

(3) 3/2

(4) - 3/2

38. The area bounded by the curve $y = 2x^2$, the x - axis and the ordinates at x = -1 and x = 2 is

- (1) 6 sq units
- (2) 3 sq units
- (3) 3 sq units
- (4) 6 sq units

39. The differential equation formed by eliminating a and b from $x + y = ae^x + be^{-x}$ is

- (1) $d^2y/dx^2 + y = 0$

- (2) $d^2y/dx^2 y = 0$ (3) $d^2y/dx^2 x y = 0$ (4) $d^2y/dx^2 + x y = 0$

40. The solution of the differential equation $\frac{dy}{dx} = \frac{1 + y^2}{1 + x^2}$ is

- (1) $\tan^{-1} y + \tan^{-1} x + c = 0$
- (2) $\log (1 + y^2) + \log (1 + x^2) + c = 0$
- (3) $tan^{-1} y tan^{-1} x + c = 0$
- (4) $\log (1 + y^2) \log (1 + x^2) + c = 0$

SPACE FOR ROUGH WORK

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PART-B

It consists of 41 - 80 questions.

- 41. The prefix "mega" stands for
 - $(1) 10^3$

 $(2) 10^{-3}$

 $(3) 10^{-6}$

- $(4) 10^6$
- 42. Which of the following is dimensional physical quantity?
 - (1) pressure

- (2) strain
- (3) mechanical advantage
- (4) sp.gravity

- 43. The principle of vernier is
 - (1) n VSD = (n + 1) MSD

(2) (n-1) VSD = n MSD

(3) n MSD = (n-1) V SD

- (4) (n-1) MSD = n VSD
- 44. A screw gauge has a pitch of $\frac{1}{2}$ mm and 50 division on sleeve. The reading when the jaws touch is +5 division. While gripping a wire the reading is PSR = 3 PSD and HSR = 17, then the diameter of wire is
 - (1) 1.62 cm

(2) 0.162 cm

(3) 0.162 mm

- (4) 16.2 mm
- 45. The extension of the material by itself without increase of load takes place
 - (1) within elastic limit
 - (2) beyond elastic limit
 - (3) beyond yield point
 - (4) at breaking point
- 46. If the strain in a wire is 0.1%, then the change in the length of the wire of length 5 m is
 - (1) 5×10^{-2} m

(2) 5×10^{-3} m

(3) 5×10^{-4} m

(4) 5×10^{-3} cm

47. Poisson's ratio is the ratio of	
(1) $\frac{Lateral\ strain}{Linear\ strain}$ (2) $\frac{Linear\ strain}{Lateral\ strain}$	
(3) $\frac{Lateral\ strain}{Volume\ strain}$ (4) $\frac{Volume\ strain}{Lateral\ strain}$	
48. The pressure at a depth of 100 m below the surface of water density 1000 kgm ⁻³	is
(1) $98 \times 10^5 \text{ Nm}^{-2}$ (2) $9.8 \times 10^4 \text{ Nm}^{-2}$	
(3) $980 \times 10^4 \mathrm{Nm^{-2}}$ (4) $98 \times 10^4 \mathrm{Nm^{-2}}$	
49. When two capillary tube of different diameters are dropped vertically in a liquid height of the liquid is	i, the
(1) More in the tube of larger diameter	
(2) More in the tube of smaller diameter	
(3) Lesser in the tube of smaller diameter	
(4) Same in both the tubes	
50. The property by virtue of which a liquid opposes relative motion between its diff layers is	erent
(1) Viscosity (2) Elasticity	
(3) Surface tension (4) Inertia	
51. The maximum amount of force acting for a short duration is known as	
(1) Momentum (2) Inertia	
(3) Power (4) Impulse	
52. A bullet of mass 0.01 kg is fired from a rifle of mass 20 kg with a speed of 10 m/s,	then
the recoil velocity of rifle is m/s.	
(1) -1 $(2) -0.05$	
(3) -200.01 (4) -0.005	

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- 53. Final velocity of a body thrown downwards is _____
 - (1) Maximum

(2) Minimum

(3) No change

- (4) Zero
- 54. A person throws a sand bag from a boat at rest in a pond then boat moves
 - (1) In the same direction
 - (2) In the opposite direction
 - (3) In a perpendicular direction
 - (4) In circular direction
- 55. Two equal forces at a point, the square of their resultant is equal to three times the product of the forces. Then the angle between the forces is equal to
 - (1) 30°

 $(2) 45^{\circ}$

 $(3) 60^{\circ}$

(4) 90°

- 56. Equilibrant is a force
 - (1) Which brings a body in equilibrium
 - (2) Which moves the body along the resultant force
 - (3) in zig-zag movement of the body
 - (4) Which moves the body in opposite direction to equilibrant force
- 57. A force of 10 N acting on a body fixed at a point the distance from the fixed point to the line of force is 2 m. Then the moment of the force is ______ N-m.
 - (1) 0.002

(2) 0.02

(3) 2

- (4) 20
- 58. By Lami's theorem, P Q R are three forces acting in equilibrium and angle between PR, PQ, QR, are α , β , γ respectively then which of the following is correct?
 - $(1) \frac{P}{\sin\beta} = \frac{Q}{\sin\gamma} = \frac{R}{\sin\alpha}$

(2) $\frac{P}{\sin \gamma} = \frac{Q}{\sin \alpha} = \frac{R}{\sin \beta}$

(3) $\frac{P}{\sin\alpha} = \frac{Q}{\sin\beta} = \frac{R}{\sin\gamma}$

(4) $\frac{P}{\sin\alpha} = \frac{Q}{\sin\gamma} = \frac{R}{\sin\beta}$

- 59. If the line of action of the force passes through the point of rotation, then the moment of force is
 - (1) Maximum

(2) Less than one

(3) Greater than one

- (4) Zero
- 60. 1 Kilo calorie of heat is equal to _____ joule.
 - (1) 4.186

(2) 41.86

(3) 418.6

- (4) 4186
- 61. The correct relation between °F and K scale is
 - (1) 5K = 9 (F 32)
 - (2) 9K = -5(F 32)
 - (3) $K = \frac{9}{5} (F 32) 273$
 - (4) $K = \frac{5}{9} (F 32) + 273$
- 62. Absolute zero is the temperature of a gas at which, the _____ of gas is theoretically zero.
 - (1) Mass

(2) Weight

(3) Volume

- (4) Density
- 63. When the particle is in SHM having amplitude 'r', then its velocity is
 - (1) $v = \omega (r^2 y^2)$

 $(2) v = \omega \sqrt{r^2 - y^2}$

(3) $v = r\omega^2$

- (4) $v = r\omega^3$
- 64. Ripples in water are the example for
 - (1) Transverse wave
 - (2) Longitudinal wave
 - (3) Sound wave
 - (4) Ultrasonic wave

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65.	The length of one ventral segme	nt in stationary wave is equal to				
	(1) Full wavelength of the wave					
	(2) Twice the wavelength of the	e wave				
	(3) Half a wavelength of the wa	ve				
	(4) Quarter a wavelength of the	wave				
66.	A stretched string under a tension increased by 4 times, then the from	on T vibrates with a frequency f. When the	he tension is			
	(1) same	(2) doubled				
	(3) tripled	(4) zero				
67.	The best value of reverberation t	ime for speech listener				
	(1) 0.5 to 1.5 s	(2) 0.15 to 0.5 s				
	(3) 0.05 to 0.15 s	(4) 0.5 to 5 s				
68.	• •	retched with different tensions are made in the ratio 3:2:1 and frequencies are sa				
	(1) 1:2:3	(2) 2:3:1				
	(3) 1:3:2	(4) 3:2:1				
69.	Newton's formula for velocity of	sound was corrected by				
	(1) Boyle	(2) Charles				
	(3) Laplace	(4) Hertz				
70.	Light waves are composed of bo	th electric and magnetic field is propose	d by			
	(1) Newton's corpuscular theor	у				
	(2) Huygen's wave theory					
	(3) Maxwell's theory of light					
	(4) Plank's theory					
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- 71. If 'a' and 'b' are the amplitudes of two interfering waves then for destructive interference the amplitude 'R' is
 - (1) R = ab

(2) R = a/b

(3) R = a - b

- (4) R = a + b
- 72. Two coherent sources $2 \times 10^{-4}\,$ m apart are illuminated by the light of wave length 5000×10^{-10} m. The distance between the source and screen is 0.2m, then fringe width is
 - (1) 0.05×10^{-3} m
 - (2) 5×10^{-3} m
 - (3) 0.5×10^{-3} m
 - (4) 50×10^{-3} m
- 73. Resolving power of microscope is
 - (1) Equal to the resolution of the microscope
 - (2) Reciprocal to the resolution of the microscope
 - (3) Reciprocal to the focal length of the microscope
 - (4) Product of wave length and semi vertical angle
- 74. Which of the following phenomenon confirm that light is transverse wave?
 - (1) Diffraction
 - (2) Interference
 - (3) Refraction
 - (4) Polarization
- 75. In Field emission
 - (1) High positive voltage is used
 - (2) Secondary electrons are used
 - (3) High energy is used
 - (4) High radiations are used

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- 76. Which of the following is not true?
 - (1) Photoelectric emission is an instantaneous process
 - (2) Photoelectric emission do not takes place below threshold frequency
 - (3) The K.E. of the photoelectron depends on the wavelength of incident radiation
 - (4) Number of photoelectrons emitted is directly proportional to the intensity
- 77. The appearance of additional frequencies in scattered beam of light is known as
 - (1) Raman effect
 - (2) Coherent scattering
 - (3) Incoherent scattering
 - (4) Bipolar scattering
- 78. Two properties of LASER are
 - (1) Highly monochromatic and extremely intense
 - (2) Highly chromatic and extremely fast
 - (3) Very high frequency and extremely high wave length
 - (4) Very high power and extremely low amplitude
- 79. To form a galvanic cell
 - (1) difference in concentration of electrolyte is required
 - (2) difference in concentration of frequency is required
 - (3) difference in concentration of amplitude is required
 - (4) both (2) and (3)
- 80. pH value is not having its application in
 - (1) determination of quality of soil
 - (2) determination of quality of textile dyes
 - (3) determination of quality of chemicals
 - (4) determination of quality of electron

PART-C

. It consists of **81 – 180** questions.

- 81. Killing pupa is
 - (1) Drying
- (2) Sorting
- (3) Cooking
- (4) Reeling

- 82. Main amino acid of bombyx mori fibroin is
 - (1) Valine
- (2) Glycine
- (3) Threonine
- (4) Arginine
- 83. The fibres manufactured by Addition polymerisation process are
 - (1) Polyester & Polypropylene
 - (2) Nylon & Polypropylene
 - (3) Polyester & Nylon
 - (4) Polyethylene & polypropylene
- 84. Nomex is
 - (1) Natural fibre

(2) Regenerated fibre

(3) Polyamide fibre

- (4) Polynosic fibre
- 85. The physical properties of the fiber depends upon
 - (1) Molecular weight

(2) Crystallinity

(3) End groups

- (4) All of these
- 86. The monomer used to prepare Nylon-6 is
 - (1) Wood pulp

(2) Caprolactum

(3) Carbon

(4) Acrylonitrile

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87.	The other name of Polyester fiber	ris	
	(1) Nylon-6	(2) Polyethylene terephthala	ate
	(3) Poly propelene	(4) None	
88.	The smallest repeat unit of the thr	ee dimensional lattice of the crystallite	s is known as
	(1) Crystalline region	(2) Morphology	
	(3) Unit cell	(4) Monomer	,
89.	PTFE is also known as		
	(1) Teflon (2) Nylon	(3) PVC (4) (Orlon
90.	Bast fibers are derived from		
	(1) Animals	(2) Plants	
	(3) Micro organisms	(4) All of these	
91.	Which of the following constitutes	the central portion of the coarse woo	1?
	(1) Medulla (2) Cuticle	(3) Cortex (4) L	_umen
92.	The sequence of steps in carbon i	manufacture are	
	(1) Oxidation, graphitization, car	bonization	
	(2) Oxidation, carbonization, gra	phitization	
	(3) Graphitization, oxidation, car	bonization	
	(4) Carbonization, oxidation, gra	phitization,	



93. The typical two bladed beater speed for 20 s Ne is

- (1) 850 rpm
- (2) 750 rpm
- (3) 1600 rpm

(4) 1250 rpm

94. Typical fan speed for processing 60 s Ne is

- (1) 2000 rpm
- (2) 1200 rpm
- (3) 600 rpm

(4) 400 rpm

95. The type of Gin used for long staple cotton

- (1) Mecarthy
- (2) Roller Gin
- (3) Saw Gin

(4) Knife roller Gin

96. Cleaning efficiency of Unimix is

- (1) 40 %
- (2) 60 %
- (3) 20%

(4) 50%

97. The diameter of cylinder of Card is

- (1) 500 mm
- (2) 5000 mm
- (3) 1300 mm

(4) 2000 mm

98. Standard shell roller diameter in blow room is

- (1) 25 inches
- (2) 18 inches
- (3) 9 inches

(4) 12 inches

99. Drawframe setting is done based on

- (1) Mean length
- (2) Modal length
- (3) Staple length

(4) Effective length

100. The sequence of combing preparatory is

- (1) Card Drawframe Unilap
- (2) Card Unilap Drawframe
- (3) Draw frame Card Unilap
- (4) Unilap Drawframe Card

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- 101. Piecing in comber is achieved by
 - (1) Drafting roller

(2) Top comb

(3) Cylinder

- (4) Detaching roller
- 102. The hole size of hollow leg of flyer depends on
 - (1) Hank of roving

(2) TPI

(3) Type of Material

- (4) All of these
- 103. The count production in Rotor spinning machine is
 - (1) 10s
- (2) 60s
- (3) 80s
- (4) 120s

- 104. The draft range in air jet spinning is
 - (1) 10 20
- (2) 20 80
- (3) 100 200
- (4) 400 800

- 105. TPI in ring frame is reciprocal of
 - (1) Front roller Delivery/ Spindle Speed
 - (2) Spindle / Front roller Delivery
 - (3) Back roller speed/ Front roller Delivery
 - (4) Front roller Delivery/Back roller Speed
- 106. Metallic Clothing are used in
 - (1) High Speed Card

(2) Conventional Card

(3) Tandem Card

(4) LC300A Card

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107.	Multiple	box looms are	e used for				
	(1) Fibe	er mixing		(2)	Warp mixing		
	(3) We	ft mixing		(4)	Cloth mixing		
108.	Dividend	l is given in					
	(1) Tak	e up	(2) Shedding	(3)	Beat up	(4) Picking	
109.	In which	of the following	ng loom "nozzles"	are us	sed?		
	(1) Proj	ectile	(2) Sulzer	(3)	Water jet	(4) Powerloom	
110.	Double r	nose tappet is	used in		<u> </u>		
	(1) Fast	t reed mechar	nism	(2)	Loose reed mecha	ınism	
	(3) War	p protector me	echanism	(4)	Pick at wheel moti	on	
111.	Self threa	ading shuttle i	used in				
	(1) War	p changing au	itomatic loom				
	(2) Wef	t changing au	tomatic loom				
	(3) Han	dloom	<i>y</i>				
	(4) Con	ventional loor	n				
112.	Eccentric	city of sley is fo	ound in				
	(1) She	dding	(2) Picking	(3)	Beat up	(4) Take up	
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113.	Leno selvedge is fou	nd in			
	(1) Plain shuttle loo	m	(2) Do	bby loom	
	(3) Automatic loom		(4) Air	jet loom	
114.	Bunch build mechan	ism helps to avoid			
	(1) Miss pick	(2) Gout	(3) Slu	a b	(4) Missing end
115.	For which yarn antist	atic agent is requir	ed?		
	(1) Natural yarn		(2) Sy	nthetic yarn	
	(3) Regenerated ya	rn	(4) We	ool	
116.	Over pick motion is u	sed for	(2	
	(1) Medium and bro	ad loom	(2) Ve	ery broad loom	
	(3) Narrow loom		(4) Ve	ery wide	
117.	. Variable beat up me	chanism is used fo	r		
	(1) Terry weaves	(2) Leno	(3) Ga	auge	(4) Backed cloth
118.	. Buffer made from	.			
	(1) Cotton	(2) Wood	(3) Le	eather	(4) Steel
119.	. When the event of y	árn breaks in cone	winding n	nachine ?	
	(1) Lifting of packag	ge holder from the	drum		
	(2) Package holder	and drum contact	each othe	r	
	(3) Package holder	and drum stops s	multaneo	usly	
	(4) None of these				
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120.	Object of sizing is					
•	(1) To improve stren	gth	(2) To remove faults			
	(3) To give smooth f	inish	(4) To improve finenes	SS		
121.	The process to remove	ve hairy fibers is calle	ed			
	(1) Scouring	(2) Desizing	(3) Bleaching	(4) Singeing		
122.	The reducing agent u	sed for Sulphur dyei	ing is			
	(1) Sodium Sulphide		(2) Sodium Sulphate			
	(3) Sodium Chloride		(4) Sodium Hydrosulp	hite		
123.	After mercerizing fabr	ic dimension is	Ollar			
	(1) Extended	(2) Shrinked	(3) Tensioned	(4) Twisted		
124.	The temperature use	in thermsol process	of dyeing is			
	(1) 150° C	(2) 170° C	(3) 180° C	(4) 210° C		
125.	The movement in jet	dyeing machine the	material and dye liquor	are		
	(1) Stationary	>	(2) In movement			
	(3) Liquor stationary		(4) Only material			
126.	Auramin, Rhodomine	, Malechite are relate	ed to			
	(1) Basic dye	(2) Acid dye	(3) Azo dye	(4) Reactive dye		
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127. The temperature recommended in wool scouring is

(1) 100° C

TX

- (2) 120° C
- (3) 50° C

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(4) 85° C

128. In application of sulphur dye resembles

- (1) Vat dye
- (2) Direct dye
- (3) Azoic dye
- (4) Basic dye

129. Naphthol and Base are used in

- (1) Vat dye
- (2) Basic dye
- (3) Acid dye
- (4) Azoic dye

130. Which of the following defects occurring in roller printing?

- (1) Snappers
- (2) Lifts
- (3) Scrimps
- (4) All of these

131. Transfer printing prints the fabric in which of the following method?

(1) Direct

(2) Indirect

(3) Laminating

(4) Coating

132. Which of the following is permanent chemical finishes?

(1) Perchmentising

(2) Mercerizing

(3) Soil releasing

(4) All of these

133. Sueding machine is used to produce

(1) Mild effect of raising

(2) Dense effect of raising

(3) Shear

(4) Crabbing

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134.	LOI is associated wit	th			
-	(1) Water repellenc	y	(2) Flame repe	llency	
	(3) Air repellency		(4) Soil repelle	ncy	
135.	Cut squaring techniq	ue is used for			
	(1) Roving	(2) Bale	(3) Lint	(4) Kapas	
136.	The secondary stand	lard condition for t	ropical countries are		
	(1) 20°±2° C and 6	5%±2% RH		0	
	(2) 27° ± 2° C and 6	5%±2% RH			
	(3) 24°±2° C and 6	0%±2% RH	57		
	(4) 30° ± 2° C and 6	5%±2% RH	: 000		
137.	Ratio of 50% Span le	ength to 2.5 % Spa	in length is		
	(1) Span length	10	(2) Uniformity ra	atio	
	(3) Index of irregula	rity	(4) Effective ler	ngth	
138.	If the mature fibers a	re 62% and dead f	ibre is 25% then ma	turity ratio is	
	(1) 0.710	(2) 0.190	(3) 0.885	(4) 0.880	
139.	If 120 yard of yarn we	eighs 3 grams ther	n yarn count in Engli	sh system is	
	(1) 10s	(2) 22s	(3) 80s	(4) 60s	
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140.	Which of the following is direct yarn nur	bering system ?	
	(1) English system	(2) Metric system	
	(3) French	(4) Denier	
141.	Twist and twill interactions associated v	ith	
	(1) Cloth cover and twist	(2) Twill direction and twist	,
	(3) Shrinkage and twist	(4) Twist and hand	
142.	Pilling is a		
	(1) Finishing fault	(2) Fabric hand fault	
	(3) Fabric surface fault	(4) Creasing	
143.	Energy required to break the specimen	S	
	(1) Stress	(2) Tenacity	
	(3) Breaking length	(4) Work of rupture	
144.	Amount of water used in spray test is		
	(1) ½ litres (2) ¼ litres	(3) 1 litre (4) 3/4	litre
145.	n th root of product of all observation is		
	(1) Arithmetic mean	(2) Harmonic mean	
	(3) Geometric mean	(4) Mode	
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153.	Symmetric designs in	jacquard, uses				
	(1) Center tie-up		(2)	Straight tie-up		
	(3) Mixed tie-up		(4)	Lecy's tie-up		
154.	Which of the following	j is commercial twi	ll fabri	cs?		
	(1) Jean	(2) Gabardine	(3)	Denim	(4) All of these	
155.	Which of the following	weave have altern	ate ra	ised and sunk dia	mond shaped areas ?	
	(1) Mock leno		(2)	Distorted thread	effect	
	(3) Honey comb		(4)	Huck-a-back		
156.	No satin or sateen we	ave is entirely free	from	15 Y		
	(1) Plain	(2) Repp	(3)	Leno	(4) Twill	
157.	Crepe weaves can be	produced by whic	h of th	ne following metho	ods?	
	(1) Sateen base	(2) Reversing	(3)	Super imposing	(4) All of these	
158.	Cords running in the	warp direction is in	which	of the following v	veave?	
	(1) Piques		(2)	Bedford cards		
	(3) Honey comb		(4)	Mockleno		
159.	Calculate the loom statement of the crimp is 9%.	ate cloth width if the	e reed	l width is 60 inche	s and the weft	
	(1) 50.5 inches	(2) 53.4 inches	(3)	55.5 inches	(4) 60.2 inches	
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160. In warp rib fabric ribs are produced in

- (1) Warp way
- (2) Weft way
- (3) Diagonal
- (4) Inclined

161. Compound needle is patented by

- (1) James Lee
- (2) Jeacock
- (3) Decroix
- (4) Wiillaim Lee

162. Which needle is self acting needle?

(1) Latch needle

(2) Sinker

(3) Compound needle

(4) Bearded needle

163. Interlock is the combination of

- (1) Plain X Plain
- (2) Rib X Rib
- (3) Purl X Purl
- (4) Plain X Rib

164. Tightness factor is expressed as

- $(1) \ \frac{\sqrt{tex}}{l}$
- (2) $\frac{l}{\sqrt{c}}$
- $(3) \ \frac{l}{\sqrt{tex}}$
- (4) $tex \alpha C$

165. The gauge of raschel machine is

- (1) no. of needles per inch
- (2) no. of needles per four inch
- (3) no. of needles per two inch
- (4) no. of needles per mm

166. In diabetic shoes the fabric used in

- (1) Rib fabric
- (2) Plain knit
- (3) Lecoste
- (4) Spacer

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167.	Security spring found in		
	(1) v bed flat knitting machine	(2) circular knitting machine	•
	(3) rib knitting machine	(4) purl knitting machine	
168.	Guide bars used in		
	(1) Tricot (2) Rachs	(4) I	Both (1) and (2)
169.	Hot notches cannot be used for		
	(1) Thermoplastic fibers	(2) Loosely woven tweed	
	(3) Natural fibre	(4) All of these	
170.	To attach a band or lace to the lo	ver edge of a slip which seam class is	s used
	(1) Class – I (2) Class	- IV (3) Class – VI (4)	Class – VII
171.	Over edge chain stitches are con	monly referred to as	
	(1) Interlock (2) Over l	ck (3) Under lock (4)	Lock
172.	Which part of the sewing machin	needle has larger diameter?	
	(1) Shoulder (2) Shan	(3) Long grove (4)	Eye
173.	The use of fusible interlinings ma	kes manufacturing time	
	(1) Increases	(2) Shorten	
	(3) Does not affect	(4) Increase twice	
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(1) Opening date

(2) Closing date

(3) Overall selling period

(4) All of these

179. Six sigma was first introduced by

(1) Wall mart

(2) Motorola

(3) JC penny

(4) Hutch

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180. Which document that communicate garment specifications both within and outside the company?

(1) Invoice

(2) Shipment

(3) Specification sheet

(4) Insurance policy

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