## 100/2014

## Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Which is DuPont in		by Wa	allace Carothers at the chemical firm
	(A)	Polyester	(B)	Nylon
	(C)	Acrylic	(D)	Polyolefin
2.		ratio of the actual vapour pressure t ure expressed as a percentage :	to the	saturated vapor pressure at the same
	(A)	Relative humidity	(B)	Absolute humidity
	(C)	Moisture content	(D)	Moisture Regain
3.	The stand	lard regain value of wool is :		
	(A)	17%	(B)	7%
	(C)	70%	(D)	0.7%
4.	It is an a (68 ± 4 °F		of 65	$\pm$ 2% and a temperature of 20 $\pm$ 2 $^2\mathrm{C}$
	(A)	Standard atmospheric condition	(B)	Standard atmosphere
	(C)	Standard condition of atmosphere	(D)	Standard Testing atmosphere
5.	Select the	Bale Plucker from the following:		
	(A)	L/R RSB 851	(B)	L/R Aero feed
	(C)	Blendomat-BDT	(D)	Multi mixer
6.	Piano feed	d regulating motion is found in :		
	(A)	Carding engine	(B)	Draw frame
	(C)	Blow room	(D)	Speed frame

7. Fabrics made with inter looping of yarns - most suitable term is:			le term is:	
	(A)	Woven fabrics	(B)	Net fabric
	(C)	Lace fabric	(D)	Knitted fabrics
8.	Beating-u	p in a power loom come under :		
	(A)	Secondary motion	(B)	Primary motion
	(C)	Tertiary motion	(D)	Auxiliary motion
9.	It is also l	known as artificial silk :		
	(A)	Nylon	(B)	Acetate rayon
	(C)	Orlon	(D)	Viscose rayon
10.	The colou	r of leuco compound of Vat black	is:	
	(A)	Black	(B)	Brown
	(C)	Green	(D)	Violet
11.	The resul	t of fiber fineness test is found to	be 6.0 MV.	The fiber can be rated as:
	(A)	Coarse fiber	(B)	Very fine fiber
	(C)	Medium fine fiber	(D)	Fine fiber
12.	In Digital	Fibrograph, fiber length is expre	essed in :	
	(A)	Mean length	(B)	Modal length
	(C)	Span length	(D)	Effective length
13.	Removal	of short fiber is the main object o	<b>f</b> :	
	(A)	Combing process	(B)	Carding process
	(C)	Blow room process	(D)	Drawing process
14.	Ring fram	ne Top roller nip load can be mea	sured by :	
	(A)	ATIRA Nilometer	(B)	Stroboscope
	(C)	ATIRA TARP Gauge	(D)	Stelometer
15.	Suitable (	Gin for processing long stapled co	otton is:	
	(A)	Knife roller Gin	(B)	Macarthy Gin
	(C)	Saw knife Gin	(D)	Saw Gin

16.	It is an exa	ample of Semi fast gripped feedin	g saw tooth	Beater/opener:	
	(A)	Porcupine opener	(B)	Shirley opener	
	(C)	Crighton opener	(D)	Krischner's beater	
17.	Lakshmi l	Reiter Polar drafting is a :			
	(A)	3-over-5 roller drafting system	(B)	5-over-3 roller drafting system	
	(C)	3-over-4 roller drafting system	(D)	4-over-3 roller drafting system	
18.	Shore har	dness of top roller cots of ring fra	me ranges :		
	(A)	30° to 60°	(B)	60° to 90°	
	(C)	$20^{\circ}$ to $50^{\circ}$	(D)	$10^{\circ}$ to $40^{\circ}$	
19.	Function	of this part in the card is to alter	setting bet	ween flats and cylinder :	
	(A)	Cylinder Arch	(B)	Concentric bends	
	(C)	Flexible bends	(D)	Front plate	
20.	Cross roll	Verga unit in card is a :			
	(A)	Carding device	(B)	Feeding device	
	(C)	Pre carding device	(D)	Doffing device	
21.	In a steep	twill the angle of twill line is :			
	(A)	45°	(B)	Below 45°	
	(C)	Less than 30°	(D)	More than 45°	
22.	It is an e	xample of broken and reverse tw	ill fabric str	ructure :	
	(A)	Hock a back weave	(B)	Satin weave	
	(C)	Herring bone weave	(D)	Sateen weave	
23.	It is a fa	bric structure which is a modifica	tion of plai	n weave :	
	(A)	Honey comb weave	(B)	Hopsack weave	
	(C)	Bedford cord weave	(D)	) Satin weave	
24.	The emp	oty space run lengthwise through	the centre	of the cotton fiber is termed as:	
	(A		(B	) Cuticle	
	(C	) Primary wall	(D		,
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25.	Bast fiber	s are extracted by this process :		
	(A)	Shearing	(B)	Retting
	(C)	Ginning	(D)	Croissure
26.	In this sh	edding the warp is only moved when t	he pat	tern requires a change of position :
	(A)	Centre closed shedding	(B)	Bottom closed shedding
10	(C)	Top closed shedding	(D)	Open shedding
27.	Function warp in the	of this unit in a loom is to grip the clo	th so	that it is held at the same width as th
	(A)	Temples	(B)	Breast beam
	(C)	Lease rods	(D)	Emery roller
28.	60° Englis	h yarn count is approximately equival	ent to	*
	(A)	30 Tex	(B)	60 Tex
	(C)	10 Tex	(D)	120 Tex
29.	Type of to	p rollers used in modern high speed di	aw fr	ames are :
	(A)	Loose boss rollers	(B)	Solid rollers
	(C)	Loose bush rollers	(D)	Fluted rollers
30.	In carding	g web material is converted to sliver by		
	(A)	Doffer	(B)	Doffer comb
	(C)	Calendar roller	(D)	Trumpet
31.	Organ fix	ed between the top and bottom apron t	o cont	rol the movement of strand of fibers :
	(A)	Spacer	(B)	Nose bar
	(C)	Apron cradle	(D)	Condenser
32.	Sizing is	lone on :		
	(A)	Weft yarn	(B)	Warp yarn
	(C)	Hosiery yarn	(D)	Cone yarn
33.	Congo red	dyestuff belongs to this group:		
	(A)	Oxidised dyes	(B)	Dispersed dyes
	(C)	Acid dyes	(D)	Direct dyes

34.	Principal o	bject of the Stenter machine is to:		
	(A)	Control the width of the fabric	(B)	Control the length of the fabric
	(C)	Improve the luster of the fabric	(D)	Improve the strength of the fabric
35.	Molten wa	x is used to produce designs in this	style of p	printing:
	(A)	Discharge	(B)	Direct
	(C)	Resist	(D)	Azoic
36.	Sanforisin	g is a:		
	(A)	Anti static finish	(B)	Anti shrink finish
	(C)	Anti crease finish	(D)	Anti Phil finish
37.	Fastness	to perspiration of Direct coloured m	aterials c	an be improved by the treatment with:
	(A)	Copper sulphate	(B)	Potassium dichromate
	(C)	Formaldehyde	(D)	Sodium phosphate
38.	Fibers wh	nich are not in the nip of either drav	ving and	retaining rollers are termed as:
	(A)	Hooked fibers	(B)	Curled fibers
	(C)	Short fibers	(D)	Floating fibers
39.	Percentag	ge of trailing hooked fibers found in	a card sl	iver is:
	(A)	45% to 65%	(B)	70% to 80%
	(C)	15% to 35%	(D)	30% to 40%
40.	Ratio bet	ween surface speed of delivery rolle	r to feed i	roller is termed as :
	(A)	Tension draft	(B)	Mechanical draft
	(C)	Break draft	(D)	Actual draft
41.	Standard	l moisture regain of cotton, wool, ac	etate and	silk, in the decreasing order is:
	(A)	C:11-	(B)	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(C)		(D)	Wool > Silk> Acetate> Cotton
42.	Souring	is a process to :		
	(A)	Remove size		
	(B)	Remove wax		
	(C)	Neutralize the substrate after al	kaline tre	eatment
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43.	The ability of a fabric to assume a graceful appearance in use is termed as :				
	(A)	Drape	(B)	Wear	
	(C)	Resilience	(D)	Flexibility	
44.	Bursting	strength is important for this type of	fabric :		
	(A)	Suiting's	(B)	Curtain fabrics	
	(C)	Toweling fabric	(D)	Filter fabric	
45.	It is not a	measure of scattering:			
	(A)	Arithmetic mean	(B)	Mean range	
	(C)	Mean deviation	(D)	Variance	
46.	Standard	regain of 80/20 Polyester Viscose ble	nd is :		
	(A)	3.98%	(B)	2.92 %	
	(C)	4.80%	(D)	7.20%	
47.	The powe	r of recovery from a given extension i	s expre	ssed by the term :	
	(A)	Elastic extension	(B)	Yield stress	
	(C)	Elastic recovery	(D)	Yield strain	
48.	Taker-in	to feed plate setting for processing a	short st	apled cotton :	
	(A)	4 thou	(B)	12 thou	
	(C)	16 thou	(D)	8 thou	
49.	A compac	t lap is produced in Blow room by the	help of	?:	
	(A)	Calendar rollers	(B)	Piano feed regulating mechanism	
	(C)	Condenser	(D)	Rack and brake mechanism	
50.	Bottom cy	linder of the comber fitted with comb	ing seg	ment is otherwise known as :	
	(A)	Top nipper	(B)	Half lap	
	(C)	Bottom nipper	(D)	Full lap	
51.	It is not a	n auxiliary motion of a power loom :			
	(A)	Side weft fork motion	(B)	Loose reed motion	
	(C)	Let-off motion	(D)	Warp stop motion	

52.	Weak link	effect is a term concerned with:			
	(A)	Strength test	(B)	Drape test	
	(C)	Evenness test	(D)	Fineness test	
53.	The loom	parts Duck bill and hitter found in :			
	(A)	Warp easing motion	(B)	Let-off motion	
	(C)	Fast reed motion	(D)	Loose reed motion	
54.	The fall is	n surface speed of top rubber covered m roller is termed as :	roller v	when the material passing between to	)
	(A)	Roller slip	(B)	Roller lapping	
	(C)	Draft	(D)	Roller cots	
55.	Chemical	Burr extraction from the wool is know	vn as :		
	(A)	Chlorination	(B)	Carbonization	
	(C)	Scouring	(D)	Bleaching	
56.	Hydropho	bic fibers are mainly dyed with this g	roup of	colours:	
	(A)	Oxidized	(B)	Mineral	
	(C)	Dispersed	(D)	Mordant	
57.	Naphthol	s are dissolved in :			
	(A)	Sodium hydroxide	(B)	Calcium hydroxide	
	(C)	Phenol	(D)	Hydrochloric acid	
58.	The loom	parts hammer lever and cam found in	n :		
	(A)	Under pick mechanism	(B)	Centre weft fork motion	
	(C)	Side weft fork motion	(D)	Over pick mechanism	
59.	Two mos	t important fiber properties which are	affecte	ed by fiber fineness are :	
	(A)	Resistance to bending and strength			
	(B)	Stiffness and torsional rigidity			
	(C)	Stiffness and strength			
	(D)	Resistance to twisting and strength	D.		
60.	The ATII	RA fiber fineness instrument working	on:		
	(A)	Diesel oil flow principle	(B)	Kerosene oil flow principle	
	(C)	Water flow principle	(D)		
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61.	The imma	ature cotton fibers after treatme	ent with 18 %	caustic Soda found to be:			
	(A)	Rod like appearance	(B)	Curled ribbon like appearance			
	(C)	Round like appearance	(D)	Flat like appearance			
62.	It is the r	atio between force applied and	linear density	<i>'</i> :			
	(A)	Mass stress	(B)	Tenacity			
	(C)	Stress	(D)	Strain			
63.	Silk, wool	, flax and rayon can be consider	red as:				
	(A)	Cellulose fibers	(B)	Polyamide fibers			
	(C)	Synthesized fibers	(D)	Lustrous fibers			
64.	Silk gum	is otherwise known as :					
	(A)	Fibroin	(B)	Fats and wax			
	(C)	Sericin	(D)	Mineral salts			
65.	When the	denier of a fiber is doubled, its	diameter inc	reases by :			
	(A)	Two times	(B)	Four times			
	(C)	0.41 times	(D)	1.41 times			
66.	In a modern cotton ring frame maximum spindle speed is around:						
	(A)	11000 rpm	(B)	16000 rpm			
	(C)	28000 rpm	(D)	22000 rpm			
67.	The rate of	of printing production is highest	on:				
	(A)	Roller printing	(B)	Screen printing			
	(C)	Block printing	(D)	Flat bed printing			
68.	Weight of	1 lea of 60 s cotton yarn is appr	roximately:				
	(A)	2 grams	(B)	4 grams			
	(C)	½ gram	(D)	1 gram			
69.	Optimum	condition for bleaching cotton v	vith hydroger	peroxide is :			
	(A)	pH 7, boil	(B)	pH 7, 60°			
	(C)	pH 10, 60°	(D)	pH 10, boil			
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70.	The kind	of abrasion occurs at folds and collars o	an be	termed as :
	(A)	Plane abrasion	(B)	Flex abrasion
	(C)	Edge abrasion	(D)	Flat abrasion
71.	In ate picl	king, the shuttle enters the shed when	the go	ing part of the loom is nearer to the:
	(A)	Lop centre	(B)	Back centre
	(C)	Bottom centre	(D)	Front centre
72.	Weft patt	erns in fabrics can be produced by :		
	(A)	Fast reed motion	(B)	Loose reed motion
	(C)	Multiple box motion	(D)	Jacquard shedding motion
73.	If the acti	ual draft is 100 and waste removed is 5	%, the	e mechanical draft in a card is:
	(A)	105	(B)	150
	(C)	50	(D)	95
74.	It is not a	n example of cross weaving :		
	(A)	Mock leno	(B)	Net leno
	(C)	Madras muslin	(D)	Cellular leno
75.	Tension t	ype twist tester working on :		
	(A)	Untwist method	(B)	Optical method
	(C)	Untwist and retwist method	(D)	Twist to break method
76.	In transfe	er printing, designs are produced by us	ing:	
	(A)	Roller	(B)	Paper
	(C)	Block	(D)	Screen
77.	Lea strer	igth tester is working on :		
	(A)	Ballistic principle	(B)	Pendulum lever with CRL principle
	(C)	Pendulum lever with CRT principle	(D)	Impact principle
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	(C)	Increasing ring rail traverse	(D)	Changing direction of twist
	(A)	Increasing TPI	(B)	Reducing TPI
85.	Without a	ltering spindle speed, Ring frame pro	oduction	can be increased by :
	(C)	Mode	(D)	Median
	(A)	Mean	(B)	Arithmetic Mean
84.	The midd	le value of a series of values arranged	l in orde	er of magnitude is termed as:
	(C)	Air permeability	(D)	Air resistance
	(A)	Air porosity	(B)	Air content
83.		second required for 1 cubic cm of a of 1 cm head of water is termed as:	ir to pa	ss through 1 sq. cm of fabric under a
	(C)	Ring cop winding	(D)	Warping
	(A)	Cone winding	(B)	Fly frame bobbin winding
82.	Winding	and binding ratio is a term in :		
	(C)	91862 meters	(D)	184800 meters
	(A)	84000 meters	(B)	76810 meters
81.	The lengt	h of one pound of 100" cotton yarn is	approxi	mately:
	(C)	Decreases initially and increases	(D)	Decreases continuously
	(A)	Increases initially and decreases	(B)	Increases continuously
80.	With incr	easing twist, spun yarn strength:		
	(C)	Sodium hypochlorite	(D)	Sodium Sulphate
	(A)	Sodium chlorite	(B)	Sodium nitrite
79.	Diazotiza	tion of a base can be done with HCL	and:	
	(C)	0.75	(D)	0.85
	(A)	0.65	(B)	0.95
10.	7	co-efficient of the cotton is:	una to	be mature and 10 is immature. The
78.	By testin	g 1000 cotton fibers, 670 fibers for	und to	be mature and 70 is immature. The

86.	Keighley o	lobby is an example of :		
	(A)	Single lift open shed dobbies	(B)	Double lift open shed dobbies
	(C)	Single lift centre closed dobbies	(D)	Double lift centre closed dobbies
87.	This group	o of dyestuff has no direct affinity to	wards te	xtile fibers :
	(A)	Mordant dyes	(B)	Acid dyes
	(C)	Basic dyes	(D)	Sulphur dyes
88.	Adipic Aci	id (ADA) and Hexamethylene diamir	ne (HMD)	) are used as raw materials for :
	(A)	Nylon 66 polymer	(B)	Polyester
	(C)	Acrylic	(D)	Viscose rayon
89.	Total nun	ber of needles in a double lift double	e cylinder	400 hook jacquard is:
	(A)	816	(B)	800
	(C)	408	(D)	400
90.	This mat		nydrolysi	s of starches using acids or at high
	(A)	Gum arabic	(B)	British gum
	(C)	Gum tragacanth	(D)	Locust beam gum
91.	The prod	uction/hour of a single delivery Dra	w frame	with 1000 MPM delivering 5gm/meter
	(A)	12 Kg	(B)	5 Kg
	(C)	300 Kg	(D)	600 Kg
92.	The fabri	c test conducted on Elmendorf Teari	ng Teste	risa:
	(A)	Trapezoid tear test	(B)	Wing rip tear test
	(C)	Tongue tear test	(D)	Single rip ballístic test
93.	Crease re	covery can be measured quantitatively	y by Shirl	ey crease recovery tester in terms of:
	(A)	Crease recovery length	(B)	Crease recovery percentage
	(C)	Non creasing capacity	(D)	Crease recovery angle

94.	Appearan	ace of pills is more prominent in		— fabrics.
	(A)	Synthetic	(B)	Cotton
	(C)	Silk	(D)	Linen
95.	Waviness	imparted to the threads in a fabric is o	alled	:
	(A)	Pills	(B)	Crimp
	(C)	Twist	(D)	Hairiness
96.	A Nep im	perfection in a Uster evenness tester is	defin	ed as a fault of :
	(A)	Length 1cm and cross section 50%	(B)	Length 1cm and cross section 200%
	(C)	Length 1mm and cross section 200%	(D)	Length 1mm and cross section 50%
97.	Resultant	count of a cotton plied yarn composed	of 24	and 40s is:
	(A)	64s	(B)	15e
	(C)	32*	(D)	16ª
98.	Twist is in	nserted on roving by the help of:		
	(A)	Coiler and Can	(B)	Spindle and Front roller
	(C)	Spindle and flyer	(D)	Spindle, Ring and Traveler
99.	Bunch for	mation in pirns helps:		
	(A)	Pirn changing mechanism	(B)	Shuttle changing mechanism
	(C)	To protect shuttle flying	(D)	Rapier mechanism
100.	In the cou	pling bath of azoic dye, it is added as a	lkali l	pinding agent :
	(A)	Sodium sulphate	(B)	Ferrous sulphate
	(C)	Chromium sulphate	(D)	Aluminium sulphate