COMBINED TECHNICAL SERVICES EXAMINATION (DIPLOMA / ITI)

COMPUTER BASED TEST
DATE OF EXAM 26.09.2025 FN

PAPER-II,

HANDLOOM TECHNOLOGY, TEXTILE TECHNOLOGY AND TEXTILE MANUFACTURE

(DIPLOMA) (CODE: 445)

In false-twist texturisation method, the spindle rotates at a speed of 1. (P) 50,000 to 1,00,000 rpm (A) 5,000 to 10,000 rpm (D) 1,000 to 10,000 rpm (C) 5,000 to 15,000 rpm Answer not known (\mathbf{E}) Casein can be produced by the method of 2.(A) Dry spinning Melt spinning (B) Wet spinning Dref spinning (D) Answer not known (E) 3. Which of the following statements is true about Nylon 66 spinning process? Nylon 66 yarn is melt spun at high speed 1. 2.Nylon 66 varn is drawn almost immediately after solidification 3. A turbine driven feed roll replaces the conventional feed and separator roll The process displays unusually high drawing tension and 4.exceptionally uniform yarn (A) 4 only (B) 1 and 2 only 1, 2 and 3 2 and 3 only (D) (E) Answer not known

4.	A go	A good fibre forming polymer should not have					
	(A)	Linear polymeric chain					
	P	Branched polymeric cha	in				
	(C)	High DP					
	(D)	High intermolecular inte	eraction				
	(E)	Answer not known					
5.	The	type of fibre used for mak	king sweater is				
	(A)	Acrylic	(B) Nylon				
	(C)	Polyester	(D) Viscose				
	(E)	Answer not known					
6.		duction of viscose rayon of following in chronological	comprises the following steps. Arrang order				
	1.	Subsequent final regene	eration and washing				
	2.	Avivage treatment					
	3.	Feeding of viscose solubath	tion through spinnerets into spinning				
	4.	Drying					
	W	3, 1, 2 and 4					
	(B)	3, 2, 1 and 4					
	(C)	2, 1, 3 and 4					

(E) Answer not known

(D) 2, 3, 1 and 4

7.	Regenerated synthetic fibre is								
	(A)	Nylon	B	Viscose Rayon					
	(C)	Terylene	(D)	Orlon					
	(E)	Answer not known							
8.	The	density of silk in the raw state	is						
	SAS	1.33 gm/cc	(B)	1.38 gm/cc					
	(C)	1.39 gm/cc	(D)	3.53 gm/cc					
	(E)	Answer not known							
9.	Medulla is associated with the following fibre								
	(A)	Cotton	(B)	Silk					
ļ	Jes	Wool	(D)	Nylon					
	(E)	Answer not known							
10.	Which one of the following statement is incorrect?								
	(A) Density of cotton is 1.52 g/cm ³								
	(B)	Density of silk is 1.34 g/cm ³							
	(C)	Density of polyvinyl chloride i	s 0.9	g/cm ³					
	(D)	Density of glass is 2.5 g/cm ³							
	(E)	Answer not known							

11. Choose the right answer:

- 1. Nylon Long chain of synthetic polyamide
- 2. Aramaid Long chain of synthetic polymer
- 3. Olefine Long chain of synthetic polymer
- 4. Vinyon Long chain of polyamide
- 1 is correct and 3 is correct
- (B) 2 is correct and 4 is correct
- (C) 1 is wrong and 4 is correct
- (D) 2 is correct and 3 is wrong
- (E) Answer not known

12. Among the following solvents and their boiling points which is incorrectly paired?

(A) Acetone – 56 °C

- (B) DMF 153 °C
- Methylchloride 49 °C
- (D) Water 100 °C
- (E) Answer not known

13. The solvent used to dissolve polypropylene is

- Meta xylene
- (B) Meta cresol
- (C) Methylene chloride
- (D) Sodium zincate
- (E) Answer not known

14.	A co	tton is a					
	(A)	Animal fibre	Vegetable fibre				
	(C)	Mineral fibre	(D) Regenerated fibre				
	(E)	Answer not known					
15.	The	source of linen fibre is					
	(A)	Cotton boll	(B) Flax stalk				
	(C)	Hemp	(D) Agave leaf				
	(E)	Answer not known					
16.	Name the defect occurred due to wrong drawing of threads						
	(A)	Broken pick	(B) Cut weft				
12	(C)	Cracks	(B) Broken pattern				
	(E)	Answer not known					
17.	Among the following fabric defects which is formed due to waste of fly falling on to the warp between the reed and the fell of the cloth.						
	(A)	Dirty cloth	(B) Gout				
	(C)	Hard size	(D) Reediness				
	(E)	Answer not known					

18. Choose the right answer: Suitability of weft yarn for air jet weaving is mainly dependent on 1. Type of fibre used

- 2. Yarn count
- 3. Yarn structure
- 4. Yarn twist
- (A) 1, 2, 3 (C) 1, 3, 4 (D) 2, 3, 4 (D) 1, 2, 4
- (E) Answer not known

19. Match the following:

I II

(a) Electronic dobby 1. Profile Reed
(b) Projectile weaving 2. Bonas
(c) Air jet weaving 3. Torsion Rod
(d) Jacquard shedding 4. Rotary

(a) (b) (c) (d) (A) 2 3 4 1 (B) 4 1 3 (C) 3 2 1 4 3 2 1 Answer not known

20. How many rollers required in roller reversing motion in weaving, to produce 5 end sateen?

8

(A) 2 (B) 3 (D) 5

(E) Answer not known

21.	Amo moti		x motions, which is pick-at -will				
	(A)	2×1	(B) 4×1				
	(9)	4×4	(D) 3×2				
	(E)	Answer not known					
22.	Whi	ch is the process of passing the	weft yarn through the shed?				
	(A)	Shedding	(B) Picking				
	(C)	Beating	(D) Drawing-in				
	(E)	Answer not known					
23.	Slough-off due to						
	(A)	Weft yarns slips off the pirn a	and get entangled in the fabric				
	(B)	Fabric defect					
	(C)	Cheese winding					
	(D)	Loose winding of pirn and harsh picking					
	(E)	Answer not known					
24.	It is	It is the name indicating the loom stoppage					
	(A)	Dieing time	Down time				
	(C)	Stopping time	(D) Resting time				
	(E)	Answer not known					

25.	Which of the following property belongs to Bottom closed shed?							
	(A)	Less power consumption						
	(B)	Low cover to the fabric						
	(C)	Equal strain put upon warp threads						
	D	High cover to the fabric						
	(E)	Answer not known						
26.	Shed	dding mechanism controlling individual warp threads						
	(A)	Tappet (B) Dobby						
	(C)	CAM Jacquard						
	(E)	Answer not known						
27.	Whie	ch of the following is incorrectly paired?						
	JA)	Weaving body and border designs – cross border jacquard						
	(B)	Single lift, single cylinder jacquard – bottom closed shed						
	(C)	Frictional let-off motion - Negative let-off motion						
	(D)	Double lift dobby – Black burn dobby						
	(E)	Answer not known						
28.	Single lift, single cylinder jacquard has this type of shedding:							
	(A)	Centre closed shed						
	B	Bottom closed shed						
	(C)	Open shed						
	(D)	Semi-open shed						
	(E)	Answer not known						

- 29. A 500 end double lift, single cylinder jacquard has
 - (A) 500 hooks and 500 needles
 - (B) 500 hooks and 1000 needles
 - 1000 hooks and 500 needles
 - (D) 1000 hooks and 1000 needles
 - (E) Answer not known
- 30. In weaving, control of each warp ends or groups of similarly interlacing warp ends within the pattern repeat across the fabric width is called:
 - (A) Tappet shedding

- (B) Dobby shedding
- Jacquard shedding
- (D) CAM shedding
- (E) Answer not known
- 31. Assertion [A]: In synthetic warp yarn sizing, the size film must coat the yarn surface without excessive penetration into the body of the yarn.

Reason [R]: If the size

If the size material is penetrated deep in the yarn, complete desizing would not be possible.

- (A) [A] is true but [R] is false
- Both [A] and [R] are true and [R] is the correct explanation of [A]
 - (C) [A] is false, [R] is true
 - (D) Both [A] and [R] are true, but [R] is not the correct explanation of [A]
 - (E) Answer not known

32.	The	basic ingredients of a size	liquour a	re					
	(A)	Dyes and chemicals							
	(B)	Adhesives, lubricants and	l solvent						
	(C)	Caustic soda							
	(D)	Enzyme							
	(E)	Answer not known							
33.		ong the following sizing septic?	ingredie	ents whic	h is	used	as	ar	
	(A)	Polyvinyl alcohol							
	(B)	CMC							
	(2)	Copper sulphate							
	(D)	Sodium carboxymethyl ce	ellulose						
	(E)	Answer not known							
34.	The heal	order in which warp end ds.	s are dr	awn thro	ugh t	he eye	e of	the	
	(A)	Denting-in	(B)	Lifting-o	ut				
	(C)	Reeling-out		Drawing	-in				
	(E)	Answer not known							
35.	For	For which fabric production the ball warping is used?							
	(A)	Voile fabric	(B)	Elastic ta	ape				
	(C)	Denim fabric	(D)	Polyester	11-71	ic			
	(E)	Answer not known	,/	The second of th		002 (PTE.)			
	No. 7.2.								

36.	An e	xtra length of weft wound on t	he ba	se of a pirn is called
	(A)	Nose	(B)	Bunch
	(C)	Tip	(D)	Base
	(E)	Answer not known		
37.	EYC	is		
	(A)	Electrical Yarn Cleaning	(B)	Electronic Yarn Clearer
	(C)	Electrical Yarn Clearer	(D)	English Yarn Count
	(E)	Answer not known		
38.	The	splice is a		
	SAS	Longer piecing than a knot		(B) Knot
	(C)	Tie and dye		(D) Fault
	(E)	Answer not known		
39.	Amo	ng the following types of te	nsion	ing devices, which is most
		nonly found on warping mach		,
	(A)	Capstan	(B)	Multiplicative
	(C)	Additive	70 70	Combined
	(E)	Answer not known		
40.	Amo	ng the following processes	whic	h is used to improve the
		ngth and abrasion of the yarn?		en me (messerie (see),messerie (see),see e
	(A)	Warping	(B)	Pirn winding
	(C)	Drum winding	DY	Sizing
	(E)	Answer not known	_ _ -0 %	
80				

	(A)	Stenter dyeing	(B)	Soaping and washing			
	(C)	Heat setting	(D)	Resin finishing			
	(E)	Answer not known					
42.		racteristic of the Kanchipu cturally:	ram '	weave that distinguishes it			
	(A)	Two shuttle wave with plair	n body				
	(B)	Extra weft jacquard insertion	n				
	(0)	Three shuttle interlocked border technique					
	(D)	Pattern formed by extra wel	ft thre	ads			
	(E)	Answer not known					
				v .			
43.		n type predominantly used in smooth texture :	the l	handloom longis for strength			
	(A)	Carded yarn	(B)	Combed yarn			
	(C)	Filament yarn	(D)	Core-spun yarn			
	(E)	Answer not known					
44.	Fact	or increase pilling tendency i	n han	dloom bedsheet fabric is :			
	(A)	Coarse yarn count	(D)	Loose fabric construction			
	(C)	Long staple yarn	(D)	Tight fabric construction			
	(E)	Answer not known	(-)	S			
	\/						

The traditional finishing step in Sungudi sarees after dyeing to fix

colours and soften fabric involves:

41.

45.	Key sare	difference exist between han es.	d lo	om	sarees	and	power	loom
	(A)	Uniform weave pattern						
	(B)	Aligned motifs						
	48	Slight irregularities in spacing	or.					
	(D)	Even selvedge edges	7					
	(E)	Answer not known						
46.		tify the reasons olefin fibres ares and door panels :	е рі	refe	rred in	auto	motive	trunk
	(A)	Excellent sound absorption						
	(B)	High moisture retention						
	(C)	Enhanced UV production						
	(D)	Excellent chemical resistance						
	(E)	Answer not known						
47.	Dens	sity of Nomex fibre for producin	g ba	llist	tic prot	ective	e fabric	is
	(A)	$1.47 \mathrm{\ g/cm^3}$	(B)	1.4	5 g/cm	3		
	(0)	$1.38 \mathrm{\ g/cm^3}$	(A)		0 g/cm			
		Answer not known	(-)	00004	8			
48.	The	fibre used for Ballistic protection	n is					
	(A)	Wool	(B)	Co	tton		x"	
	4	Kevlar	(D)					
	(E)	Answer not known	(2)	~11				

49.		n technique applied to improve iles:	e the	e mechanical strength of geo
	SAS	Needle punching	(B)	Chemical coating
	(C)	Spun bond	(D)	Melt blown
	(E)	Answer not known		
50.		ermine the main raw materia de nets :	l us	ed in the manufacturing of
	A	HDPE	(B)	Nylon
	(C)	Polyester	(D)	Jute
	(E)	Answer not known		
51.	The	fabrics extensively used agricu	ltura	al end uses is
	(A)	Woven fabrics		
	(B)	Weft knitted cotton fabrics		
	(C)	Non-woven		
	D	Warp knitted man made texti	les	
	(E)	Answer not known		
52.	Spor	rts fabrics designed with ceram	ic pa	rticles contribute to
	(A)	UV transmission	(B)	High absorbency
	(CX	Thermal regulation	(D)	
	(E)	Answer not known	(15)	222922 024002020

53.	The	fibre used as Artificial liver	is					
	(A)	Hollow polyester	(B)	Hollow polypropylene				
	C	Hollow viscose	(D)	Silicone membrane				
	(E)	Answer not known						
54.		three-layer silicon laminate one sandwiched between poly		7/75 San				
	(A)	Wound dressing						
	(B)	Soft contact lenses						
	(0)	Surgical drapes and gowns						
	(D)	Artificial skin						
	(E)	Answer not known						
55.	The fibres used for sutures in medical textiles is							
	(A)	Cotton fibre	(B)	Glass fibre				
	(C)	Collagen fibre	(D)	Polyethelene fibre				
	(E)	Answer not known						
56.	Name the fibres which is not used for medical textile application							
	(A)	Collagen	(B)	Kevlar				
	(C)	Calcium Alginate	(D)	Chitin / Chitosan				
	(E)	Answer not known						
57.	Nylon tyre cord is the best for the							
	A	Manufacturing of tyre	(B)	Manufacturing of belt				
	(C)	Manufacturing of hose	838 158	Manufacturing of seat				
	(E)	Answer not known						
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58.		man made fibre dominate medical field.						
	(A)	Nylon (B) Polypropylene						
	(C)	Nomex Polyester						
	(E)	Answer not known						
59.	A no	A non woven fabric is a manufactured sheet of						
	(A)	Sliver (B) Lap						
	(C)	Roving Web						
	(E)	Answer not known						
60.	In n	on woven manufacturing, mechanical bonding is done b	у					
	(A)	Spun bonding method						
	(B)	Chemical bonding method						
	(C)	Melt blown method						
	D	Needle punching method						
	(E)	Answer not known						

61.		ange the following items accor ending order	ding to the % use of non wovens in
	(a)	Medical / surgical	
	(b)	Hygiene	
	(c)	Civil Engineering	
	(d)	Garments	
	(A)	(a), (b), (c), (d)	
	(D)	(b), (c), (a), (d)	
	(C)	(a), (c), (d), (b)	
	(D)	(b), (a), (c), (d)	
	(E)	Answer not known	
62.	Bark	oed needle are used in which j	process
	(A)	Spunbond	(B) Melt blowing
	(C)	Fibrillated film	(b) Needle punching
	(E)	Answer not known	
63.	Con	tinuous filament webs are cal	led
	(A)	Wet-laid	(B) Dry-laid
	(C)	Random-laid	Spun-laid

(E)

Answer not known

64.	In n	eedle punching process, higher	pune	ch density cannot cause			
	(A)	Lower web thickness		-			
	(B)	And alreadous in the and and another transfer and another and another and another another and another					
	(C)	,					
	D	Higher permeability of fibres					
	(E)	Answer not known					
65.		ntify the web formation method n proportion of short fibres (< 5					
	(A)	Melt blown	(B)	Wet-laid			
	(C)	Dry-laid	(D)	Spunbond			
	(E)	Answer not known					
66.	Wat	er vapour permeability = perm	eanc	$e \times l$ where l is			
	(A)	Pore size of membrane	(B)	Thickness of membrane			
	(C)	Length of membrane	(D)	Thickness of fabric			
	(E)	Answer not known					
67.		at will be the cloth cover factor factor factor and weft cover fac		No.			
	(A)	19	(B)	22			
	(C)	24	(D)	26			
	(E)	Answer not known					

68.	The	formula for specific work of	rupture is given by
	(A	Charifia work of wintims -	Work of rupture
		Specific work of rupture –	Work of rupture (Mass/Unit length)×Initial length
	(D)	Considia work of menture -	(Mass/Unit length)
	(B)	Specific work of rupture =	work of rupture × Initial length
	(C)	Specific work of rupture =	Work of rupture× Initial length (Mass/Unit length)
	(D)	Specific work of rupture =	$\frac{\text{Work of rupture}}{\text{Mass} \times \text{Initial length}}$
	(E)	Answer not known	
69.	The	property of fabric which inf	luences drape the most is
	(A)	Tensile	(B) Compressional
	Seg	Shear	(D) Surface
	(E)	Answer not known	
70.	table		ength of 80 cm warp way while on n the fabric measures 83 cm in the p %?
	(A)	3.61%	(B) 3.62%
	(C)	3.80%	99 3.75%
	(E)	Answer not known	
71.	Vari	ations showing regularly sp	paced thick and thin places
	(4)	Periodic	(B) Random
	(C)	Ordinary	(D) Perfect
	(E)	Answer not known	

- 72. Yarn diameter (in inches) is equal to
 - $1 \div \left[28\sqrt{N}\right]$

(B) $28\sqrt{N}$

(C) $1 \div \left[\sqrt{28 \times N} \right]$

- (D) $1 \div \left[\sqrt{28} \times N \right]$
- (E) Answer not known
- 73. With an increase in gauge length, the tenacity of a spun yarn would
 - (A) Increase
 - (B) Decrease
 - (C) Remain the same
 - (D) First increase and then decrease
 - (E) Answer not known
- 74. For single yarn twist testing, which method is used to check the twist

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- (A) Straightened fibre method
- (B) Crimp rigidity tester
- (C) Single thread strength testing
- (D) Uster evenness tester
- (E) Answer not known
- 75. NQP count in a cotton fibre sample is measured by
 - (A) AFIS

(B) HVI

(C) Uster

- (D) Stelometer
- (E) Answer not known

76.	Wet sam	samples will have ple.		regain value than the dry
	(A)	Lower	P	Higher
	(C)	Equal	(D)	Finer
	(E)	Answer not known		
77.	SFI	means		
	(A)	Staple Fibre Index	(B)	Synthetic Fibre Index
	(C)	Surface Fibre Index	(D)	Short Fibre Index
	(E)	Answer not known		
78.		ch of the fibre shows high dime oisture?	nsio	nal change due to absorption
	(A)	Cotton	(B)	Viscose
	(C)	Wool	(D)	Silk
	(E)	Answer not known		
79.	The	standard testing relative humi	dity	value is
	(A)	85%	(B)	75%
	C	65%	(D)	45%
	(E)	Answer not known		

30.	In pe	eriodic variation short term variation means
	SAS	Wave length is 1 to 10 times the length of the fibre
	(B)	Wave length is 100 to 1000 times the length of the fibre
	(C)	Wave length is 10 to 100 times the length of the fibre
	(D)	Wave length is 0.1 to 1 times the length of the fibre
	(E)	Answer not known

- 81. Which of the following statement is true about 'Zoning' technique of sampling?
 - (i) It is used for the bulk of material is not homogeneous
 - (ii) It is used for the material is composed of fibres in parallel order
 - (iii) It is suitable for sampling from slivers and webs in which fibres are entangled
 - (A) (ii) only (B) (iii) only (C) (ii) and (iii) only (D) (i) only
 - (E) Answer not known
- 82. Coefficient of variation is equal to
 - (A) Ratio between mean and standard deviation
 - (B) Ratio between mean and variance
 - Ratio between standard deviation and mean
 - (D) Ratio between variance and mean
 - (E) Answer not known

- 83. The number of tests required to give the standard deviation to an accuracy of a percent at the 95 per cent confidence level. The 95 percent confidence interval for the population standard deviation is given by
 - (A) Sample standard deviation ± 1.56 Standard error
 - (B) Sample standard deviation ± 1.90 Standard error
 - (C) Sample standard deviation ± 1.86 Standard error
 - Sample standard deviation ± 1.96 Standard error
 - (E) Answer not known

84. Expand AATCC

- (A) American Association of Testing Colour and Chemicals
- American Association of Textile Chemists and Colorists
- (C) All Association of Textile Chemical and Colours
- (D) American Association of Textile Colour and Control
- (E) Answer not known
- 85. Among the following which represent the 'median' in a series of values?
 - (A) The smallest value in a series
 - (B) The average of all the values
 - The middle of a series of values arranged in order of magnitude
 - (D) The most frequently occurring value
 - (E) Answer not known

86.	The	result can be achieved by cale	endaring process			
	(A)	Increase Lusture and smoot	hness			
	(B)	Increase moisture regain				
	(C)	Reduce cross linking				
	(D)	Reduce fabric handle				
	(E) [']	Answer not known				
87.	77	can be applied to Acetate rayon, viscose rayon and Nylon fabric to impart water repellency, soft handle and improved				
	urap	oing quality.	(D) D (C) III			
		Silicones	(B) Paraffin Wax			
	(C)	Aluminium stearate	(D) Wax emulsion			
	(E)	Answer not known				
88.	Alur	ninium stearate is used in	finishing process.			
	(A)	Anti crease	(B) Anti shrink			
	(C)	Resin	(D) Water repellent			
	(E)	Answer not known				
89.	Orig	gin of Batik print				
	(A)	India	(B) Indonesia			
	(C)	China	(D) Japan			
	(E)	Answer not known	(None of School A Spanish)			

(A) Refractive frequency (C) Reactive frequency (E) Answer not known 91. Maximum how many colours are present in the roller prachine (A) 12 (B) 14 (C) 16 (D) 18 (E) Answer not known 92. The fabric is printed and than dyed is called as (A) Direct style (C) Tie and dye (C) Tie and dye (C) Answer not known 93. The cabinet dyeing machines are used to dye the yellow form. (A) Beam (B) Cone (C) Hank (C) Answer not known	90.	The	expansion of R.F. in drying	
(E) Answer not known 91. Maximum how many colours are present in the roller process. The roller process of the roller process. The fabric is printed and than dyed is called as (A) Direct style (B) Resist style (C) Tie and dye (D) Discharge style (E) Answer not known 93. The cabinet dyeing machines are used to dye the year form. (A) Beam (B) Cone (C) Hank (D) Lea		(A)	Refractive frequency	(B) Resolution frequency
91. Maximum how many colours are present in the roller processing machine (A) 12 (B) 14 (C) 16 (D) 18 (E) Answer not known 92. The fabric is printed and than dyed is called as (A) Direct style (C) Tie and dye (C) Tie and dye (D) Discharge style (E) Answer not known 93. The cabinet dyeing machines are used to dye the year form. (A) Beam (B) Cone (C) Hank (D) Lea		(C)	Reactive frequency	(D) Radio frequency
machine (A) 12 (B) 14 (C) 16 (D) 18 (E) Answer not known 92. The fabric is printed and than dyed is called as (A) Direct style (C) Tie and dye (D) Discharge style (E) Answer not known 93. The cabinet dyeing machines are used to dye the year form. (A) Beam (B) Cone (C) Hank (D) Lea		(E)	Answer not known	
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(E) Answer not known 92. The fabric is printed and than dyed is called as (A) Direct style (C) Tie and dye (D) Discharge style (E) Answer not known 93. The cabinet dyeing machines are used to dye the year form. (A) Beam (B) Cone (C) Hank (D) Lea		(A)	12	(B) 14
92. The fabric is printed and than dyed is called as (A) Direct style (C) Tie and dye (E) Answer not known 93. The cabinet dyeing machines are used to dye the year form. (A) Beam (B) Cone (C) Hank (D) Lea		100	16	(D) 18
(A) Direct style (C) Tie and dye (E) Answer not known The cabinet dyeing machines are used to dye the year form. (A) Beam (B) Cone (B) Cone (C) Hank (D) Lea		(E)	Answer not known	
(A) Direct style (C) Tie and dye (E) Answer not known The cabinet dyeing machines are used to dye the year form. (A) Beam (B) Cone (B) Cone (C) Hank (D) Lea				
(C) Tie and dye (E) Answer not known The cabinet dyeing machines are used to dye the year form. (A) Beam (B) Cone (B) Lea	92.	The	fabric is printed and than dyed	is called as
(E) Answer not known 93. The cabinet dyeing machines are used to dye the y form. (A) Beam (B) Cone (B) Lea		(A)	Direct style	(B) Resist style
93. The cabinet dyeing machines are used to dye the y form. (A) Beam (B) Cone (Hank (D) Lea		(C)	Tie and dye	(D) Discharge style
form. (A) Beam (B) Cone (C) Hank (D) Lea		(E)	Answer not known	
form. (A) Beam (B) Cone (C) Hank (D) Lea				
(D) Lea	93.	The		re used to dye the yarn in
		(A)	Beam	(B) Cone
(E) Answer not known		Commen	Hank	(D) Lea
		(E)	Answer not known	

94.	The	sequence of operation of a co	ntinuo	us dyeing machines is				
	(A)	After treatment – Developi	ng – Dr	ying – Padding				
	(B)	Developing – Drying – Pado	ding – A	After treatment				
	Co	Padding – Drying – Developing – After treatment						
	(D)	Padding – Developing – Drying – After treatment						
	(E)	Answer not known						
95.	НТЕ	HTHP stands for						
	(A)	(A) Hydro Toluene Hydro Pentol						
	(B)	Property and foliage to describe the second state of the second st						
	(C)	C) Hydro Temperature High Pentol						
	(D)	High Temperature High Pressure						
	(E)	Answer not known						
96.	Hyd	rose the common name of						
	(A)	Sodium carbonate	(B)	Sodium hydroxide				
	(C)	Sodium hypochlorite	821.85	Sodium hydrosulphite				
	(E)	Answer not known						
97.	Basic Dyes are also known as							
	(A)	Anionic dyes	(B)	Cationic dyes				
	(C)	Non-ionic dyes	9.118	Insoluable dye				
	(E)	Answer not known		- Train M				

98.		eactive dyeing application eanced by	exhaustion from an aqueous bath is
	(A)	Sodium silicate	(B) Electrolyte
	(C)	Sodium Hydroxide	(D) Sodium Carbonate
	(E)	Answer not known	
99.	The	Majority of Vat dyes are de	rivatives from
	SA	Anthraquinone	(B) Triphenyl methane
	(C)	Diazonium compound	(D) Sulphonated group
	(E)	Answer not known	
100.	Disp	erse dyes are	
	(A)	Soluble in water	(B) Soluble in hot water
	(C)	Insoluble in water	(D) Sparingly soluble in water
	(E)	Answer not known	
101.		dye having poor	light fastness.
	(A)	Vat dye	(B) Disperse dye
	(C)	Basic dye	(D) Sulphur
	(E)	Answer not known	

102. The set containing reducing bleaching agents is

- 1. Sodium Sulphite
- 2. Sodium Hydrosulphite
- 3. Sodium Peroxide
- 4. Potassium Persulphate
- (A) 1 and 2

(B) 2 and 3

(C) 3 and 4

- (D) 1 and 4
- (E) Answer not known

103. The object of bleaching is

- To remove the natural colouring matter
- (B) To remove the natural and added impurities
- (C) To remove the protruding fibres
- (D) To remove the size paste
- (E) Answer not known

104. Choose the correct statement

- 1. Copper salts improve working fastness
- 2. Chromium salts improve working fastness
- 3. Copper salts improve light fastness and chromium salts improve working fastness

- 4. Chromium salts improve light fastness.
- (A) Only 2 is correct

- (B) Only 4 is correct
- Both 2 and 3 are correct
- (D) Both 1 and 4 are correct
- (E) Answer not known

105.		concentration of caustic so erization is	da	solution	used	for	effec	tive
	(A)	40-50° TW	(B)	60-70° T	W			
	(C)	10-20° TW		5 0-55° T	W			
	(E)	Answer not known						
	97.72							
106.		trostatic precipitators' are us wing pollutions?	ed	to contro	ol the	whic	eh of	the
	(A)	Water	(B)	Noise				
	Cy	Air	(D)	Water a	nd Noi	ise		
	(E)	Answer not known						
107.	Expa	and TDS						
		Total Dissolved Solids	(B)	Typical	Dyoine	r Sve	tom	
	(C)		02 0500 2002/00/2016			75 (20) 25 (20)		
	(E)	Textile Dyeing System Answer not known	(D)	Total Dy	yeing t	5016W	are	
	(E)	Allswer flot known						
108	Who	among these is the beneficiary	1110	lor LC?				
100.								
	(A)	Buyer's bank		Importe				
;	(E)	Exporter	(D)	Consign	or			
	(E)	Answer not known						
109.	Whic	h LC allows pre-shipment fina	ncin	ig and sto	rage a	t por	·t?	
	(A)	Back to back letter	(B)	Confirm	ed LC			
	(0)	Green clause LC	(D)	Blue Cla	ause L	\mathbf{C}		
	(E)	Answer not known						

110.	The l	highest noise level in a spinnin	g mill is
	(A)	Blow Room	(B) Carding
	(C)	Draw frame	(P) Ring Frame
	(E)	Answer not known	
111.	The	minimum space provided for a	worker as per the Factories Act
	1948		*
	(A)	4.8 cu.m	(B) 4.2 cu.m
	(C)	4.0 cu.m	(D) 10.2 cu.m
	(E)	Answer not known	
112.	The e	employee provident fund act wa	as introduced in the year
	(A)	1956	(B) 1952
	(C)	1950	(D) 1954
	(E)	Answer not known	
113.	Nam	e the country from which tota	al quality management system is
	initia	ally derived world wide	
	(A)	United States of America	(B) Japan
	(C)	Germany	(D) Netherland
	(E)	Answer not known	
114.	The	test used to find out the clev	verness to work with hands and
	finge	ers of a person is	
	(A)	Intelligence tests	(B) Aptitude tests
13	(0)	Dexterity tests	(D) Personality tests
	(E)	Answer not known	
11E TI	on 41.	om Took Toutile Teel 22	
		oom Tech., Textile Tech. 32 e Manufacture	

115. 'SEIRI' means

- (A) Keep machinery and working environments clean
- (B) Sort and throw away unnecessary items
- (C) Make cleaning and checking as a routine practice
- (D) Arrange the essential things in order
- (E) Answer not known
- 116. 'ISO 14001' Environmental Management Systems indicates
 - (A) Life Cycle assessment Inventory analysis
 - (B) Life cycle assessment Principles and framework
 - (C) Guidelines for environmental auditing General principles
 - (B) EMS Specification with guidance for use
 - (E) Answer not known
- 117. The quality control circle was introduced by
 - Dr. K. Ishikawa

(B) Taguchii

(C) Deming

- (D) Dr. Juran Thomas
- (E) Answer not known
- 118. Which inventory management approach in textile aims to reduce costs by ordering materials only when needed rather than holding excess inventory?
 - Just-in-time
 - (B) Batch production
 - (C) Economic order quantity
 - (D) Material requirements planning
 - (E) Answer not known

119.	O. In 'ABC Analysis' the percentage of A-items generally account for of the total inventory cost.				
	(A)	50-55%	•	70-80%	
	(C)	60-65%	(D)	100-200%	
	(E)	Answer not known			
120.		e bobbin lift is 12" and full dard norms for roving content i			
	(4)	1.3	(B)	1.5	
	(C)	1.8	3.	2.0	
	(E)	Answer not known			
121.	Prod	uction per spindle per 8 hours	in gr	rams adjusted to $40^{ m S}$ count is	
	(A)	110	(B)	120	
	(2)	116	(D)	126	
	(E)	Answer not known	ar (ar.)		
122.		ng the following types of prod re products are taken in small i			
	(A)	Job production	(B)	Mass production	
	(2)	Batch production	(D)	Continuous production	
	(E)	Answer not known			

123.	Among the following plant layout, which is used for a large volume of production with a staple product design?						
	(A)	Fixed position layout	(B)	Product layout			
	(C)	Process layout	(D)	Group technology			
	(E)	Answer not known					
124.	What are the factors considered for weaving mill plant layout among the following?						
	(i)	Transport Alley					
	(ii)	Sound Insulation					
	(iii)	Ergonomics					
	(iv)	Air-conditioning					
	(4)	(i), (ii), (iv)	(B)	(ii), (iii), (iv)			
	(C)	(i), (ii), (iii)	(D)	(i), (iii), (iv)			
	(E)	Answer not known					
125.	The process layout is also known as						
	(A)	Line layout	(B)	Sequential layout			
_	(6)	Functional layout	(D)	Bias layout			
	(E)	Answer not known					
126.	What will be the count of healds for weaving a 4 shaft plain fabric using 64s stockport reed drawn 4 in a dent?						
	(A)	64	(B)	128			
	(C)	256	(D)	1024			
	(E)	Answer not known					

127.		the cloth cover fact $r = 13.06$, weft cover factor (K	16200		if	(K_1)	warp	cover
	8 262	18.74 20.74 Answer not known	•	19.74 22.74				
128.	28. One thread of unknown count, when folded together with another 72^s cotton, gives a two folded yarn of 31.5^s cotton. Calculate to count of the unknown thread							
	(A)	53^s Cotton	(B)	54^s	Cott	con		
	(C)	55^s Cotton	Dy	56^s	Cott	on		
	(E)	Answer not known	10 m					
129.	Two	cotton yarn of 24 and 36 Ne ar	e fol	ded. F	ind	the re	sultant	count
	(A)	12.4 Ne	(B)	14.4	Ne			
	(C)	16.4 Ne	(D)	15.8	Ne			
	(E)	Answer not known						
130.	130. If the weight of 400 meters of yarn is 6 grams. Calculate its coutex system.							unt in
	(A)	15	(B)	42				
	(C)	26	(D)	24				

Answer not known

(E)

131.	with	A 150 denier continuous filament yarn is used as weft in a fabric with a cotton warp. Calculate the linear density in tex of the continuous filament yarn.							
	(A)	3.93 Tex	(B)	14.8 Te	ex				
	(C)	15.2 Tex		16.66	Гex				
	(E)	Answer not known							
132.	"If th	nere are 20160 yd in 1 lb o	of yarn, Ca	alculate	the worst	ted count.			
	(A)	38 s	(B)	40 s					
	(C)	36 s	A 16	$34 \mathrm{\ s}$					
	(E)	Answer not known	N 12						
133.	Convert 40 s cotton count into tex system.								
	(A)	14.76	(B)	0.14					
	(C)	1/40	(D)	40					
	(E)	Answer not known							
19/	In di	rect system							
104.	(A)	A coarser yarn will have a higher number while a finer yarn will have a lower number							
	(B)	A finer yarn will have a higher number while a coarser yarn will have a lower number							
	(C)	Higher the count, finer is the yarn							
	(D)	Lower the count, Coarser is the yarn							
	(E)	Answer not known							

135. Calculate the weight of 816 hanks of 60^s cotton (B) 12.3 lbs $10.5 \mathrm{\, lbs}$ (A) (D) 14.2 lbs 13.6 lbs Answer not known 136. In yarn numbering system _____ length and weight unit used for linen (wet spun) yarn. Hank of 840 yards and weight in 1 lbs (A) Hank of 560 yards and weight in 1 lbs (B) Hank of 300 yards and weight in 1 lbs (D) Spindle of 11520 yards and weight in 24 lbs Answer not known (\mathbf{E}) 137. The formula for Tex count is Mass (grams) Length (km) Length (km) (B) Mass (grams) (C) Length in km × Mass in grams Length in km - Mass in grams (D)

38

Answer not known

(E)

- 138. Calculate the production in yard per shift of 8 hours of a loom running at 200 ppm with 90% efficiency the number of picks per inch inserted on the cloth is 56.
 - (A) 45.8

(B) 42.9

(C) 48.5

- (D) 41.8
- (E) Answer not known
- 139. The rate of winding of yarn $V_f(m/\min)$ in ring spinning machine is

if
$$N_s$$
 – Spindle speed (rpm)

$$N_t$$
 – Traveller speed (rpm)

$$D_r$$
 – Ring diameter (Meter)

$$D_b$$
 – Bobbin diameter (meter)

(A)
$$V_f = (N_t - N_s) \pi \times D_b$$

(B)
$$V_f = (N_t - N_s) \pi \times D_r$$

(C)
$$V_f = (N_s - N_t) \pi \times D_r$$

$$V_f = (N_s - N_t) \pi \times D_b$$

- (E) Answer not known
- 140. Calculate the loom efficiency, if the actual running time of a loom = 555.5 mints, total running time of a loom = 577.72 mints.
 - (A) 85.16%

(B) 90.16%

(C) 95.16%

D) 96.16%

(E) Answer not known

141.	A co	ne made on a modern high	sp	eed cone winding machine
	conta	sins 4 lbs of 20^s cotton yarn.	Cal	culate the length of yarn in
	yards	3.		
	(A)	67,100 yds	(B)	67,150 yds
	S	67,200 yds	(D)	76,000 yds
	(E)	Answer not known		
142. A 25 tex yarn is spun with a twist factor of 30. How many tare there in this yarn?				or of 30. How many turns/cm
	(A)	4 turns/cm	(B)	8 turns/cm
	(C)	6 turns/cm	(D)	9 turns/cm
	(E)	Answer not known		
143. Calculate the draft of the carding machine if lap hank = 0 hank of sliver = 0.157, waste in carding machine = 5%				SECOND CONTRACTOR SECOND SECON
	(A)	108.4	(B)	118.4
	(C)	128.4	(D)	138.4
	(E)	Answer not known		
144.	The e	exact surface - speed ratio of cy	lind	er and doffer is
	(A)	18:1	(B)	15:1
	(C)	19:1	(D)	28:1
	(E)	Answer not known		

145.	The lap fed to a card has a mass per meter of $500~\rm g$. The linear density of the card sliver delivered is $5~\rm K$ tex. What is the draft of the card?						
	(A)	5	(B)				
	(C)	50	(D)	100			
	(E)	Answer not known					
146.	Wavy edged knives are preferred in straight knife cutting machine for cutting						
	(A)	Cotton fabric	(B)	Polyester fabric			
	(C)	Wool fabric	(D)	Silk fabric			
	(E)	Answer not known					
147.	The 1	method of placing the number of	of pli	es of fabric for cutting is			
	(A)	Stitching	(B)	Spreading			
	(C)	Ironing		Packing			
	(E)	Answer not known					
148.	The s	sewing machine used for attack	ning	patch pocket is			
	(4)	Flat bed	(B)	Post bed			
	(C)	Cylinder bed	N 16	Overedge bed			
	(E)	Answer not known	8 10	<u> </u>			

149. Curved needles suitable for (A) Lock stitch sewing machine (B) Overlock sewing machine

(f) Blind stitch sewing machine

- (D) Interlock sewing machine
- (E) Answer not known

150. The term CMT means

- Cutting, Making, Trimming
- (B) Cutting, Modify, Threading
- (C) Clothing, Making, Threading
- (D) Correction, Making, Trimming
- (E) Answer not known

- (A) 30°
- (B) 45°
- (C) 60°
- (D) 90°
- (E) Answer not known

•						
152.	Triar called	ngular shaped fold of fabric stitched to control fullness are				
	(A)	Gather				
	(B)	Pleats				
	C	Dart				
	(D)	Hem				
	(E)	Answer not known				
153.	. — type of knitting machines are used for stitch bonding non-woven production.					
	(A)	single jersey				
	(B)	rib machine				
	(C)	v-bed flat knitting machine				
	D	warp knitting machine				
	(E)	Answer not known				
154.	The term not related to warp knitting is					

(A) Lacoste

(B)

(C)

(D)

(E)

Raschel

Milanese

Answer not known

Tricot

155. The butt portion of spring-beard needle is also called as (A) stem (B) eye (C) head (D) shank Answer not known (E)156. In circular weft knitting machine, the device which is used to feed the yarn at a constant rate to needle is Guide Bar (A) Positive-feed system (C) Creel (D) Jack (E)Answer not known 157. Choose the incorrect statement Single jersey fabric curls at the edges (i) (ii) Rib fabric does not curl at the edges (iii) Single jersey fabric is heavier and thicker than rib with similar gauge (iv) Rib fabric has maximum extensibility in width way (A) Option (i) and (ii) only

(D) Option (iv) only

Option (iii) only

(B)

(E) Answer not known

Option (iii) and (iv) only

- 158. The type of welt produced by knitting approximately four courses on one set of needles only whilst continuing to hold the setting-up course of loops on the other set of needles is called
 - Roll welt
 - (B) Tubular welt
 - (C) Racked welt
 - (D) Inturned welt
 - (E) Answer not known
- 159. Assertion [A]: Compared with rib knitting machine, a plain knitting machine is simpler and more economical.

Reason [R]: Plain knitting machine has potential for more feeders, high running speeds and knitting wider range of counts.

- (A) [A] is true but [R] is false
- (B) [A] is false but [R] is true
- Both [A] and [R] are true, and [R] is the correct explanation of [A]
 - (D) Both [A] and [R] are true, but [R] is not the correct explanation of [A]
 - (E) Answer not known
- 160. The self acting needle is
 - (A) Spring bearded needle
 - Latch needle
 - (C) Compound needle
 - (D) Sewing needle
 - (E) Answer not known

- 161. Identify incorrect statement with respect to the methods of widthwise shaping during knitting.
 - (A) Varying the number of needles in action in the knitting width
 - (B) Changing the knitting construction
 - (C) Altering the stitch length
 - Altering the stitch density
 - (E) Answer not known
- 162. Consider the following statements

Ascertain [A]: The plain knitted fabric production rate is high

Reason [R]: Plain knit simplicity and machine simplicity

- Both [A] and [R] are true and [R] is the reason for [A]
- (B) Both [A] and [R] are true [R] is not the correct reason for [A]
- (C) [A] is true but [R] is false
- (D) Both [A] and [R] are false
- (E) Answer not known
- 163. Positive storage feed is installed in a knitting machine
 - (A) To hold the cone
 - (B) To give upward movement to the needle
 - (C) To feed the yarn to hook of the needle
 - To overcome the effects of yarn tension variation
 - (E) Answer not known

164.	In we	weft knitted fabric horizontal lines of fault results due to					
	(A)	Faulty stop motion					
	(B)	Lint in yarn path					
	(Q)	Uneven yarn					
	(D)	Defects in design elements					
	(E)	Answer not known					
165.	5. In knitted fabric, the ratio between area covered by the yarn in one loop and the loop to the area covered by that loop is called						
	(A)	Fabric area density					
	(B)	Texture					
	(0)	Tightness factor					
	(D)	Twist factor					
	(E)	Answer not known					
166.	6. Corduroy is a variety of fabric.						
	(4)	Cut pile					
	(B)	Canvas					
	(C)	Georgette					
	(D)	Crepe					

Answer not known

(E)

167. Clipped spot effect is found in

- (A) Backed cloths
- Extra weft figured cloths
- (C) Bedford cord fabrics
- (D) Double cloths
- (E) Answer not known

168. Treble cloths are made by this technique

- Self stitching
- (B) Centre Stitching
- (C) Stitching by pried yarn
- (D) Side stitching
- (E) Answer not known

169. Fabric are produced by hand twist yarn having broken surface appearance

- (A) Calico
- (B) Crepe
- (C) Damask
- (D) Denim
- (E) Answer not known

- 170. A ————— is a simple modification of the welt structure in which the indentations are not in a horizontal line but are arranged in alternate groups.
 - (A) Weft wadded welts
 - (B) Fast-back welts
 - Waved pique
 - (D) Crepon Bedford cords
 - (E) Answer not known
- 171. Bed Ford Cord weave fabric is used for
 - (military dresses
 - (B) bed spread fabric
 - (C) towels cloth
 - (D) denim cloth
 - (E) Answer not known
- 172. The weave permits both stripe and check effect on fabric is
 - (A) Honey comb
 - (B) Twill
 - W Huck a back
 - (D) Brighton Honey Comb
 - (E) Answer not known

- 173. In a Twill weave, when the warp ends/inch exceeds the weft picks/inch the twill angle formed is
 - (A) $<45^{\circ}$
 - (B) >45°
 - (C) $<30^{\circ}$
 - (D) $>90^{\circ}$
 - (E) Answer not known
- 174. Among the following weaves, which is variously known as 'Hopsack' weaves

- (A) Irregular weft rib
- (P) Matt rib
- (C) Regular warp rib
- (D) Regular weft rib
- (E) Answer not known
- 175. The suitable move number for 12 end satin weave is
 - (A) 3
 - (B) 4
 - **(C)** 5
 - (D) 2
 - (E) Answer not known

•										
176.		Among the following weaves, which is variously known as 'Tabby' weave								
	(A)	Cre	epe							
	(R)	Pla	in							
	(C)	Sat	een							
	(D)	Tw	ill							
	(E)	Ans	swer no	ot knov	wn					
177.	The	colou	ır not l	oelongs	s to co	mplementary colour is				
	(A)	Blu								
	(B)									
		Wh								
•	(D)									
	(E)	±0	swer no	ot knov	wn					
170	Mot	-ah +h	o follor	wing d	no ftin 1	a avatama with their avitable eletha				
170.	Mai	ch th	e 10110v	wing a	ramı	g systems with their suitable cloths				
	(a)		ted dra		1.	Warp backed cloth				
	73 15	Divided draft			2.	Checked cloth				
	(c) Grouped draft		3.	Herringbone Twill cloth						
	(d)	Brok	en dra	ft	4.	Ordinary Honeycomb cloth				
		(a)	(b)	(c)	(d)					
	(A)	4	1	2	3					
	(B)	4	2	1	3					
	(C)	4	3	1	2					
	(D)	1	3	2	4					
	(E)	Ans	swer no	ot knov	vn					

- 179. Identify the correct statements relevant to woven fabric design
 - I. The design indicates the interlacement of warp and weft threads
 - II. The draft indicates the manner of drawing the ends through the heald eyes
 - III. The pegplan indicates the order of lifting the heald shafts
 - IV. In a graphical design representation each square indicates intersection of warp and weft
 - (A) I, II, III and IV
 - (B) only I, II and III
 - (C) only I, II and IV
 - (D) only II, III and IV
 - (E) Answer not known
- 180. In which of the following drafting systems, the drafting order progresses successively from first to the last heald frame

- (A) Broken
- (B) Curved
- (C) Grouped
- (D) Straight
- (E) Answer not known

181.	Generally Rotor spi	ın yarns are ——	——— than ring spun	yarns.
------	---------------------	-----------------	--------------------	--------

- (A) Bulkier
- (B) Finer
- (C) Stronger
- (D) Less extensible
- (E) Answer not known

182. Which of the following is correctly paired?

Where, Rotor diameter in mm, yarn twist in twist per meter

Back doubling =
$$\frac{\text{Rotor circumference} \times \text{Yarn Twist}}{1000}$$

- (B) Back doubling = $\frac{\text{Rotor circumference}}{\text{Yarn twist} \times 1000}$
- (C) Back doubling = $\frac{\text{Rotor circumference} \times \text{Yarn twist}}{100}$
- (D) Back doubling = $\frac{\text{Yarn twist}}{\text{Rotor circumference} \times 100}$
- (E) Answer not known

183. Air Jet Yarn also termed as

- (A) Ring yarn
- (B) Fasciated yarn
- (C) Rotor yarn
- (D) Dref yarn
- (E) Answer not known

184. ______ is the widely used one for separation of air and fiber material in blowroom process.

- (A) Gravity separators
- (B) Suction pump
- (2) Condensers
- (D) Metering pumps
- (E) Answer not known

185. The increase in traveller weight leads to an increase in

- (A) Yarn Twist
- (B) Traveller lag
- (C) Balloon diameter
- (D) Yarn Tension
- (E) Answer not known

186. The ratio of winding coils: Binding coils in ring frame cop building

- (A) 1:2
- (B) 2:2
- (C) 3:2
- (2) 2:1
- (E) Answer not known

- 187. In modern ring frames, piecing becomes a problem if roller stand angle α increased beyond
 (A) 60°
 (B) 40°
 - (C) 50°
 - (D) 45°
 - (E) Answer not known
- 188. Choose the incorrect statement(s) with respect to combed yarn manufacturing process sequence
 - (i) $Card \rightarrow Sliver lap M/C \rightarrow Ribbon lap M/C \rightarrow Comber$
 - (ii) $Card \rightarrow Drawframe \rightarrow Sliver lap M/C \rightarrow Comber$
 - (iii) $Card \rightarrow Drawframe \rightarrow Sliver doubling M/C \rightarrow Comber$
 - (iv) Card \rightarrow Ribbon lap M/C \rightarrow Sliver doubling M/C \rightarrow Comber
 - (A) Option (i) only
 - (B) Option (i) and (iii) only
 - (C) Option (iii) only
 - Option (ii) and (iv) only
 - (E) Answer not known
- 189. In laying down of the silver in large coils (over centre coiling), the
 - (A) Sliver coil diameter < can radius
 - Sliver coil diameter > can radius
 - (C) Sliver coil diameter = can radius
 - (D) Sliver coil diameter = can radius 2 inches
 - (E) Answer not known

- 190. The type of irregularity can be controlled by using Autoleveler is, Short and medium term sliver irregularity (A) Medium-term sliver irregularity (B) Long-term sliver irregularity Short-term sliver irregularity (D) (E) Answer not known 191. In a drafting system, an eccentric top roller causes Change in draft with oscillation of nip line (A) Change in draft without oscillation of nip line (B) Oscillation of nip line only Neither change in draft nor oscillation of nip line (D) (E) Answer not known 192. In modern ring frame, the traveller speed is 20 m/s(A) 40 m/s60 m/s (C) 80 m/s (D) Answer not known (E) 193. Proportion of trailing, leading, both end and no hook fibres at card (A) 25:25:25:25 (B) 15:50:15:20
 - (E) Answer not known

50:15:15:20

15:15:15:55

(0)

(D)

194.	The most widely used grid bar shape is					
	(A)	slotted sheet				
	(B)	perforated sheet				
	(9)	Triangular section	Ĺ			
	(D)	blades				
	(E)	Answer not known	1			
195.	How many times a fibre rotates in the cylinder before it passes to the doffer?					
	(A)	1		P 5-10		
	(C)	50		(D) 100		
	(E)	Answer not known	ı			
196.	Mate	ch the following, wi	th re	respect to carding wire angle		
	(a)	Licker-in	1.	18°		
	(b)	Cylinder	2.	$5^{\rm o}$		
	(c)	Doffer	3.	28°		
		(a) (b) (c)				

3

3

 $\frac{1}{2}$

1

2

3

1

Answer not known

1

2

3

(C)

(D)

(E)

- 197. Which of the following statement is correct with respect to fibre configuration in carding
 - (A) High percentage of fibres without hooks are present in cylinder surface
 - (B) Double hooks are high in cylinder surface
 - Trailing hooks are high in cylinder surface
 - (D) Leading hooks are high in cylinder surface
 - (E) Answer not known
- 198. Match the following

Operations Functions (a) Opening To increase sliver evenness 1. To individualise the fibre (b) Cleaning 2. (c) Carding To make small tuft 3. (d) Drawing To remove trash 4. (c) (a) (b) (d) 2 4 1 4 3 2 (B) 1 (C) 3 4 1 2

2

58

3

1

(D)

- 199. The production rate of the mixing bale opener for short staple process is
 - (A) 400 kgs/hour
 - 🔏) 600 kgs/hour
 - (C) 800 kgs/hour
 - (D) 1000 kgs/hour
 - (E) Answer not known
- 200. The type of ginning machine is used for long-staple cotton is
 - (A) Saw gin
 - (B) Single acting macrathy gin
 - (C) Roller gin
 - (D) Double acting macrathy gin
 - (E) Answer not known