$I\ tcf\ wcvg'Cr\ vkwvf\ g'Vguv'lp'Gpi\ lpggt\ lpi$

Pqwvlqpu'\		
-	or and with 🗸 icon are correct.	
2.Options snown in red colo	and with 🍀 icon are incorrect.	
S wgunkap'Rergt'Peo g<	TF: TEXTILE ENGINEERING AND FIBRE SCIENCE 1st Feb Shift2	
P wo dgt 'qh'S wgunlqpu<	65	
VqwdO ctmκ	100.0	
Wrong answer for MCQ wi	result in negative marks, (-1/3) for 1 mark Questions and (-2/3) for 2 marks Q	luestions
Name to a constitution	General Aptitude	
Number of Questions: Section Marks:	10 15.0	
Section Warks.	15.0	
Q.1 to Q.5 carry 1 mark ea	ch & Q.6 to Q.10 carry 2 marks each.	
S wgurkqp'P wo dgt '<3"S wgurkqp'V{	cg'どOES	
	ohrase, out of the four options given below, to complete the following	
sentence:	salase, our of the four options given octow, to complete the following	
Apparent lifelessness	dormant life.	
	ads to (C) supports (D) affects	
	ids to (C) supports (D) uncers	
Qr vkqpu'\		
1. ✓ A		
2. * B		
3. * C		
4. * D		
S wgushqp'P wo dgt '<4''S wgushqp'V{	・・d'20 ES	
Fill in the blank with the corn		
I III III tile olalik with the con	et kaoni pinase.	
That boy from the town was	in the sleepy village.	
(A) dog out of herd	(B) sheep from the heap	
(C) fish out of water	(D) bird from the flock	
Qr vkqpu'<		
1. * A		
2. % B		
3. ✓ C		
4. * D		

Choo	se the statement w	here underlined	l word is used correctly	y.	
(A) (B) (C) (D)	When the thief ke Matters that are di	eps eluding the ifficult to under	ent authors, he is being police, he is being <u>elu</u> stand, identify or reme tter way to express the	sive. mber are <u>allusive</u> .	
Qr vkqp	ou'<				
1. 🕷	A				
2. 🗸	В				
з. 🗱	С				
4. 🗱	D				
S wguM	qp'P wo dgt '<'6''S wgur	kqp'V{rg' <oes< td=""><td></td><td></td><td></td></oes<>			
	ya is older than Eric				
	f is older than Tany	a.			
Enc	is older than Cliff.				
	If the first two state	ements are true,	then the third statemen	nt is:	
(B) (C) (D)	True False Uncertain Data insufficient				
Qr vkqp					
1. **					
2. 🗸					
3. 🗱					
4. 🕷	D				
S wgurl	qp'Pwodgt'<7''Swgus	kqp'V{rg'<'OES			
Five befo	teams have to con	mpete in a leag		olaying every other tear ave to be held to comp	
(A)	20	(B) 10	(C) 8	(D) 5	
Qr vkq 1. * 2. ✓	A				
З. 🛎	C				
4. 🕷	D				

S wgurlqp'P wo dgt '*8''S wgurlqp'V{ $r\,g$ '*O ES

Select the appropriate option in place of underlined part of the sentence.

Increased productivity necessary reflects greater efforts made by the employees.

- (A) Increase in productivity necessary
- (B) Increase productivity is necessary
- (C) Increase in productivity necessarily
- (D) No improvement required

Qr vkqpu'<

- 1. 🏁 A
- 2. 🎏 B
- 3. **✓** C
- 4. × D

S wgurlap'P wo dgt '<9"S wgurlap'V{rg'<0ES

Given below are two statements followed by two conclusions. Assuming these statements to be true, decide which one logically follows.

Statements:

- No manager is a leader.
- II. All leaders are executives.

Conclusions:

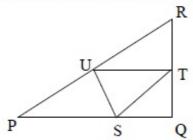
- No manager is an executive.
- No executive is a manager.
- (A) Only conclusion I follows.
- (B) Only conclusion II follows.
- (C) Neither conclusion I nor II follows.
- (D) Both conclusions I and II follow.

Qr vkqpu'<

- 1. 🏁 A
- 2. 🗱 B
- 3. 🎺 C
- 4. * D

S wgwkqp'P wo dgt '<! ''S wgwkqp'V{ r g'<P CV

In the given figure angle Q is a right angle, PS:QS = 3:1, RT:QT = 5:2 and PU:UR = 1:1. If area of triangle QTS is 20 cm^2 , then the area of triangle PQR in cm^2 is _____.



S wguNqp'P wo dgt''; ''S wguNqp'V $\{rg'$ 'O ES

Right triangle PQR is to be constructed in the xy - plane so that the right angle is at P and line PR is parallel to the x-axis. The x and y coordinates of P, Q, and R are to be integers that satisfy the inequalities: $-4 \le x \le 5$ and $6 \le y \le 16$. How many different triangles could be constructed with these properties?

- (A) 110
- (B) 1,100
- (C) 9,900
- (D) 10,000

Qr vkqpu'\

- 1. 🏁 A
- 2. 🗱 B
- 3. **√** C
- 4. * D

S wgurkqp'P wo dgt '<32''S wgurkqp'V{ r g'<0 ES

A coin is tossed thrice. Let X be the event that head occurs in each of the first two tosses. Let Y be the event that a tail occurs on the third toss. Let Z be the event that two tails occur in three tosses. Based on the above information, which one of the following statements is TRUE?

- (A) X and Y are not independent
- (B) Y and Z are dependent

(C) Y and Z are independent

(D) X and Z are independent

Or vkqpu'<

- 1. * A
- 2. 🖋 B
- 3. X C
- 4. × D

Textile Engineering and Fibre Science

Number of Questions: 55
Section Marks: 85.0

Q.11 to Q.35 carry 1 mark each & Q.36 to Q.65 carry 2 marks each.

S wgushqp'P wo dgt '<33''S wgushqp'V{rg'<PCV

If 3 and 4 are two eigenvalues of $A = \begin{bmatrix} 3 & a & b \\ c & 2 & d \\ e & f & 4 \end{bmatrix}$ for some real numbers a, b, c, d, e, and f, then

the third eigen value of A is

S wguskqp'P wo dgt '<34''S wguskqp'V{ rg'<PCV

If a continuous random variable X has probability density function

$$f(x) = \begin{cases} ax^2, & 0 \le x \le 1 \\ 0, & otherwise \end{cases}$$

then the value of a is _____

Eqttgev'Cpuy gt'

S wgurlqp'P wo dgt '<35"S wgurlqp'V{rg'<PCV

The value of $\lim_{x \to 0} \frac{\sin x}{x}$ is _____

Eqttgev'Cpuy gt'

S wgurlap'P wo dgt '<36"S wgurlap'V{rg'<PCV

If $A = \begin{bmatrix} 3 & 0 & 0 \\ 0 & 4 & 0 \\ 0 & 0 & \frac{1}{12} \end{bmatrix}$, then determinant of A^{-1} is ______

Eqttgev'Cpuy gt'

S wguskap'P wo dgt '<37"S wguskap'V{ r g'<P CV

The number of linearly independent eigen vectors of the matrix $\begin{bmatrix} 1 & 0 \\ 3 & 4 \end{bmatrix}$ is ______

Eqttgev'Cpuy gt'

S wgurkqp'P w	o dgt '<38''S wgurk	p'V{rg'≺OES		
The gur	n in the raw sil	k filament is		
(A) Wa	x	(B) Lignin	(C) Sericin	(D) Fibroin
Qr vkqpu'<				
1. 🏁 A				
2. 🏶 B				
3. 🗸 C				
4. 🗱 D				
S wguMqp'P w	o dgt '<39''S wgunk	p'V{rg' <oes< td=""><td></td><td></td></oes<>		
For proc	luction of dry-	spun acrylic fibre,	the suitable solvent for do	ppe preparation is
(C) For	' Dimethyl form nic acid	namide niocyanate (55 wt%	ó)	
Qr vkqpu'<				
1. 🏁 A				
2. 🖋 B				
3. 🎇 C				
4. 🏶 D				
S wgurkqp'P w	o dgt'<3:''S wgunk	ŋp'V{rg'∀OES		
Adipic a	acid is a monor	ner for the product	ion of	
(A) Poly (B) Nyl (C) Nyl (D) Nyl	on 64	phthalate)		
Qr vkqpu'<				
1. 🏁 A				
2. 🖋 B				
3. 🏶 C				
4. 🗱 D				
S wgurkqp'P w	odgt'<3;''Swgunk	p'V{rg'<'OES		
In melt	spinning line, t	he melting of solid	polymer and its homoger	nization takes place in
(A) Mar	nifold			
(B) Extr				
	ering pump nch duct			
Qr vkqpu'<				
1. [₩] A				
2. 🖋 B				
3. % C			https://byjus.com/gate/	

4. * D			
S wgushqp'P wo dgt '<42''S v	wgunlqp'V{rg' <oes< td=""><td></td><td></td></oes<>		
The blending technic	que that gives the most h	omogeneous mixing of fi	bres is
(A) Lap blending	(B) Tuft blending	(C) Sliver blending	(D) Roving blending
Qr vkqpu'< 1. ※ A 2. ✔ B 3. ※ C 4. ※ D			
S wgushqp'P wo dgt '<43''S v	wguMqp'V{rg' <oes< td=""><td></td><td></td></oes<>		
In a cotton comber,	noil extraction increases		
(B) With an increas	e in detachment setting se in pre-combing draft ooks are presented in lead se in short fibres	ling direction	
Qr vlqpu'<			
1. * A			
2. * B 3. * C			
4. ✓ D			
4. ▼ D			
S wguMqp'P wo dgt'<44''S	wguMqp'V{rg'<'OES		
The bottom roller s	surface used for driving a	prons in ringframe drafti	ng system is
(A) Knurled (B) Axially fluted (C) Spirally fluted (D) Smooth			
Qr vkqpu'<			
1. ✓ A			
2. * B 3. * C			
3. ₩ C 4. ₩ D			
S wgwkqp'P wo dgt '<45"S wgwkqp'V{rg'<0 ES If the numerical value of yarn linear density expressed in Tex and that in English system is the			
	the nearest integer is	capressed in 1ea and the	a m mgusu system is the
(A) 30	(B) 28	(C) 24	(D) 22
Qr vkqpu'<			
1. * A			
2. ※ B 3. ✓ C		https://byjus.com/gate/	
5. ▼ €			

4. * D	
S wgurkqp'P wo dgt '<46"S wgurkqp'V{rg'<0 ES Patterning is most likely to occur in (A) Precision winding (C) Step-precision winding	(B) Random winding (D) Pirn winding
Qr vkqpu' 1. ★ A 2. ✔ B 3. ★ C 4. ★ D	
S wgunlqp'P wo dgt '<47''S wgunlqp'V{rg' <oes< td=""><td></td></oes<>	
In cotton yarn sizing, the starch primarily acts	as
(A) Binding agent (B) Lubricating agent	(C) Antistatic agent (D) Antimicrobial agent
Qr vkqpu'≿ 1. ✓ A 2. ※ B 3. ※ C 4. ※ D	
S wgurlqp'P wo dgt '<48''S wgurlqp'V{rg'<'OES	
Purl is a	
(A) Woven structure (C) Braided structure	(B) Nonwoven structure (D) Knitted structure
Qr vkqpu' ≥ 1. * A 2. * B 3. * C 4. ✓ D	
S wgurlqp'P wo dgt '<49''S wgurlqp'V{rg' <oes< td=""><td></td></oes<>	
The technology/ies used for producing SMS fa	bric is/are
(A) Spunlace(B) Spunlace and Meltblown(C) Needlepunch(D) Spunbond and Meltblown	
Qrvkqpu'\	
1. * A	
2. ¥ B 3. ¥ C 4. ✓ D	ttps://byjus.com/gate/

S wgunlqp'P wo dgt '24: "S wgunlqp'V{rg'20 ES Jigger CANNOT be used for (A) Dyeing (B) Printing (C) Washing

Qr vkqpu'\

(D) Scouring

- 1. 🏁 A
- 2. 🗸 B
- 3. **%** C
- 4. 🗱 D

S wgurkqp'P wo dgt '<4; ''S wgurkqp'V{ rg'<0 ES

In the context of effluent discharge, BOD means

- (A) Bio-oxidative degradation
- (B) Bio oxygen distress
- (C) Biological oxygen demand
- (D) Bacteria observed on disc

Qr vkqpu'<

- 1. 🏶 A
- 2. X B
- 3. **√** C
- 4. * D

S wgurkqp'P wo dgt '<52''S wgurkqp'V $\{rg'<0\ ES$

Milling is associated with the processing of

- (A) Cotton fabric
- (B) Silk fabric
- (C) Jute fabric
- (D) Wool fabric

Qr vkqpu'<

- 1. * A
- 2. X B
- 3. **%** C
- 4. 🖋 D

S wguslqp'P wo dgt '<53"S wguslqp'V{rg'<0 ES

Dyed wool fabric standards are used for the evaluation of

- (A) Wash fastness
- (B) Perspiration fastness
- (C) Sublimation fastness
- (D) Light fastness

Qr vkqpu'< 1. 🏁 A 2. X B 3. **%** C 4. 🗸 D S wgurlap'P wo dgt '<54''S wgurlap'V $\{rg'<OES\}$ The yarn tenacity (gf/tex) measured in lea form, compared to that measured in single yarn form is (A) Always lower (B) Always higher (C) Always equal (D) Higher or lower depending on yarn count Qr vkqpu'< 1. 🗸 A 2. X B 3. **%** C 4. * D S wgurlap'P wo dgt '<55"S wgurlap'V{ r g'<0 ES The property that Kawabata Evaluation System (KES) DOES NOT measure is (A) Shear rigidity (B) Bending rigidity (C) Compressional resilience (D) Tensile strength Qr vkqpu'⊱ 1. 38 A 2. 🗱 B 3. **%** C 4. 🗸 D S wgunlqp'P wo dgt '<56''S wgunlqp'V $\{rg'<OES\}$ On absorption of moisture, the thermal insulation of cotton fabric will (A) Decrease (B) Increase

1. 🗸 A

Qr vkqpu'<

3. **%** C

4. * D

(D) First increase and then decrease

(C) Remain the same

For meeting the criterion of number of defects in a product, the relationship between upper control limit (UCL) and upper specification limit (USL) should be

- (A) UCL < USL
- (B) UCL > USL
- (C) UCL = 2USL
- (D) $UCL = (USL)^3$

Qr vkqpu'<

- 1. 🗸 A
- 8 B
- 3. 🎏 C
- 4. * D

S wguNqp'P wo dgt '\'58''S wguNqp'V{rg'\'PCV

The maximum value of $f(x) = \sqrt{2}(\sin x + \cos x)$ for x in $[0, \pi]$ is _____

Eqttgev'Cpuy gt'<

S wgurlap'P wo dgt '<59"S wgurlap'V{ r g'<0 ES

Out of the following, the exact differential equation is

(A)
$$-ydx + xdy = 0$$
 (B) $ydx + xdy = 0$ (C) $ydx - xdy = 0$ (D) $dx + xdy = 0$

(B)
$$ydx + xdy = 0$$

(C)
$$ydx - xdy = 0$$

(D)
$$dx + xdy = 0$$

Qr vkqpu'<

- 1. 🗱 A
- 2. 🗸 B
- 3. * C
- 4. × D

S wgurkqp'P wo dgt '<5: "S wgurkqp'V{rg'<PCV

Let $f:[1,4] \to \Re$ be a continuous function such that f(1) = 0.32, f(2) = 0.125, f(3) = 0.025and f(4) = 0.05. The value of the integral $\int_{1}^{4} f(x)dx$, accurate up to three decimal places, obtained by Trapezoidal rule with n=3 is

Question Number: 39 Question Type: MCQ

The normal vector to the surface $z = \sqrt{x^2 + y^2}$ at (1,1,1) is

(A)
$$\hat{i} + \hat{j} + \hat{k}$$

(B)
$$\hat{i} - \hat{j} + \hat{k}$$

(C)
$$-\hat{i} - \hat{j} + \hat{k}$$

(A)
$$\hat{i} + \hat{j} + \hat{k}$$
 (B) $\hat{i} - \hat{j} + \hat{k}$ (C) $-\hat{i} - \hat{j} + \hat{k}$ (D) $-\hat{i} + \hat{j} + \hat{k}$

Options:

Question Number: 40 Question Type: MCQ

Consider the analytical techniques in the Column I and the properties in Column II. Choose the correct alternative from amongst A, B, C, and D

Column I

P FTIR

Q Differential scanning calorimetry

R Density

S Birefringence

Column II

1 Orientation

2 Functional groups

3 Crystallinity

4 Crystallization temperature

(A) P-2, Q-4, R-3, S-1

(B) P-2, Q-1, R-4, S-3

(C) P-3, Q-4, R-1, S-2

(D) P-3, Q-2, R-4, S-1

Options:

1. 🗸 A

2. X B

3. **%** C

4. * D

Question Number: 41 Question Type: MCQ

If Tg, Tm, and Tc represent the glass transition, melting and crystallization temperature, respectively, the correct relationship is

(A)
$$T_g \le T_c \le T_m$$

(B)
$$T_g < T_m < T_c$$

(C)
$$T_c \le T_g \le T_m$$

(D)
$$T_{m} < T_{g} < T_{c}$$

Options:

4. * D

Question Number: 42 Question Type: MCQ

The correct sequence of unit operations employed in production of viscose rayon is

- (A) Ageing Steeping Xanthation Ripening
- (B) Ageing Steeping Ripening Xanthation
- (C) Steeping Ageing Ripening Xanthation
- (D) Steeping Ageing Xanthation Ripening

Options:

- 1. 🏁 A
- 2 × B
- 3. **%** C
- 4. 🖋 D

Question Number: 43 Question Type: MCQ

Consider the following assertion [a] and reason [r] and choose the correct alternative from amongst A, B, C, and D.

- [a] After polymerization of caprolactum, thorough washing of polymer with water is necessary to remove unreacted monomer and its oligomers.
- [r] Otherwise, hydrolytic degradation of polymer would occur during melt spinning.
- (A) [a] is right and [r] is wrong
- (B) [a] is right and [r] is right
- (C) [a] is wrong and [r] is wrong
- (D) [a] is wrong and [r] is right

Options:

- 1. 🗸 A
- 2. X B
- 3. X C
- 4. * D

Question Number: 44 Question Type: MCQ

Consider the fibres in Column I and the applications in Column II. Choose the correct alternative from amongst A, B, C, and D

Column I

- P Acrylic
- Q Jute
- R Nylon
- S Polypropylene
- (A) P-1, Q-4, R-2, S-3
- (B) P-2, Q-4, R-3, S-1
- (C) P-3, Q-4, R-2, S-1
- (D) P-3, Q-4, R-1, S-2

Options:

1. 🗱 A

Column II

- 1 Chemical filtration
- 2 Tire cord
- 3 Precursor for carbon fibre
- 4 Biodegradable sacks

3. ♥ C
4. * D
Question Number: 45 Question Type: PCV
Two polyester and six viscose rayon slivers of same count are blended on a drawframe. In the second passage, four slivers from first passage are further blended with two combed cotton slivers of the same count. The viscose (%) in the final sliver to the nearest integer is
Eqttgev'Cpuy gt: 50
Question Number : 46 Question Type : MCQ
In ring spinning, the tension in yarn is the maximum
 (A) Between the lappet guide and front roller (B) Where the balloon radius is the maximum (C) In winding zone (D) Just below the lappet guide
Options:
1. 🏶 A
2. * B
3. ✔ C
4. * D
Question Number: 47 Question Type: PCV
A core spun yarn of 30 tex is to be produced with 10% core by weight. If the cotton roving count is 540 tex, the required draft on the ringframe will be
Eqttgev'Cpuy gt:
Question Number: 48 Question Type: PCV
If the spindle speed of ringframe is 15000 rpm and the traveler speed at the maximum bobbin diameter of 50 mm is 0.8% less than that of the spindle. The yarn delivery rate (m/min), to the nearest integer, will be

A rotor of 2 inch diameter is spinning a yarn of 16⁵ Ne. If the twist multiplier is 5 and the fibre linear density is 0.1 tex, the average fibre flow through the transport channel, to the nearest integer, will be

Eqttgev'Cpuy gt:

3

Question Number: 50 Question Type: PCV

The groove drum in a random winder makes five revolutions for one double traverse. If the drum and package diameters are 10 cm and 5 cm, respectively, the wind per double traverse would be

Eqttgev'Cpuy gt:

10

Question Number: 51 Question Type: MCQ

A 500-end double-lift, single-cylinder jacquard has

- (A) 500 hooks and 500 needles
- (B) 500 hooks and 1000 needles
- (C) 1000 hooks and 500 needles
- (D) 1000 hooks and 1000 needles

Options:

- 1. 🏁 A
- 2. X B
- 3. 🗸 C
- 4. * D

Question Number: 52 Question Type: PCV

A shuttle loom is running at 240 picks per minute. The angular velocity of bottom shaft in radian per second is $n\pi$. The value of n is _____

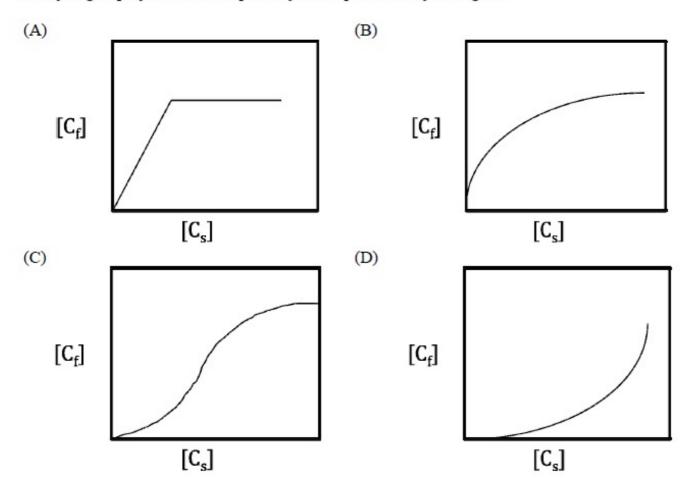
Eqttgev'Cpuy gt:

4

https://byjus.com/gate/

In an air-jet loom, if the weft yarn diameter is increased by 10%, keeping the linear density constant, the percent increase in the drag force would be
Eqttgev'Cpuy gt:
Question Number: 54 Question Type: PCV
For a fully relaxed knitted fabric, the wale constant (K _w) and course constant (K _c) are 4.2 and 5.5, respectively. If the loop length is 0.5 cm, the loop density per cm ² , to the nearest integer, would be
Eqttgev'Cpuy gt: 92
Question Number: 55 Question Type: MCQ
Consider the following assertion [a] and reason [r] and choose the correct alternative from amongst A, B, C, and D.
[a] Cross-laid needlepunched nonwoven fabrics demonstrate higher tensile strength in machine direction.[r] In cross-laid nonwoven fabrics, the fibres are randomly oriented.
 (A) [a] is right and [r] is wrong (B) [a] is right and [r] is right (C) [a] is wrong and [r] is wrong (D) [a] is wrong and [r] is right
Options:
1. * A
2. * B
3. ✓ C
4. * D
Question Number: 56 Question Type: MCQ

If $[C_s]$ and $[C_f]$ represent dye concentration in the bath and in the fibre, respectively, the isotherm for dyeing of polyester with disperse dyes is represented by the figure



Options:

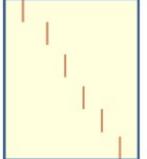
- 1. 🖋 A
- 2. 🏶 B
- з. Ж С
- 4. 🗱 D

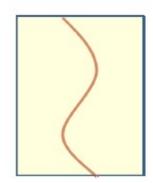
Question Number: 57 Question Type: MCQ

A small hard particle is stuck in the doctor blade of a roller printing machine. The printing fault on the fabric, as a result of this, is represented by the figure

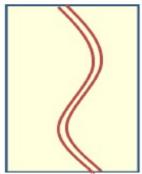
(D)

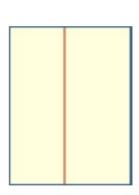
(A) (B)





(C)





Options:

- 1. 🏁 A
- 2. 🎏 B
- 3. **√** C
- 4. * D

Question Number: 58 Question Type: MCQ

Consider the following assertion [a] and reason [r] and choose the correct alternative from amongst A, B, C, and D.

- [a] Millions of shades can be produced through ink-jet printing with only four basic colours.
- [r] The colours get mixed in appropriate proportions before jetting onto the fabric.
- (A) [a] is right and [r] is wrong
- (B) [a] is right and [r] is right
- (C) [a] is wrong and [r] is wrong
- (D) [a] is wrong and [r] is right

Options:

- 1. 🗸 A
- 2. X B
- 3. * C
- 4. * D

Question Number: 59 Question Type: MCQ

Consider the following assertion [a] and reason [r] and choose the correct alternative from amongst A, B, C, and D.

[a] Fluorochemicals impart very high water repellency.

[r] Fluorochemicals significantly reduce the surface energy of the treated substrate.

(A) [a] is right and [r] is wrong

Options :

1.	×	A
2.	4	В
З.	×	С

4. 🗱 D

Question Number: 60 Question Type: MCQ

(B) [a] is right and [r] is right(C) [a] is wrong and [r] is wrong(D) [a] is wrong and [r] is right

Consider the following assertion [a] and reason [r] and choose the correct alternative from amongst A, B, C, and D.

[a] In the context of foam finishing, the narrow size distribution of foam cells increases the half life of foam.

[r] The rate of coalescing and collapsing of foam cells is low in this case.

(A) [a] is right and [r] is wrong

(B) [a] is right and [r] is right

(C) [a] is wrong and [r] is wrong

(D) [a] is wrong and [r] is right

Options:

1. 🏁 A

2. **✓** B 3. **※** C

4. **%** D

Question Number: 61 Question Type: PCV

For a typical yarn tensile test, force (F) in Newton and elongation (e) in cm are related as under

$$F = 2 + 4e + 3e^2$$

If the yarn fails at an elongation of 3 cm, the work of rupture in N-m, accurate up to first decimal place is_____

Eqttgev'Cpuy gt:

0.5

Choose the INCORRECT statement from amongst the A, B, C, and D

- (A) Crease recovery is higher for thick and dense fabric
- (B) Tear strength of fabric improves with greater float length
- (C) Strength CV of yarn does not affect the weaveability
- (D) Higher drape coefficient indicates stiffer fabric

Options:

- 1. 🍀 A
- 2. 🏶 B
- 3. 🗸 C
- 4. **%** D

Question Number: 63 Question Type: MCQ

The unique ability of woven fabric to drape in multiple curvatures is mainly due to

- (A) High tensile modulus
- (B) Low shear rigidity
- (C) Low compressibility
- (D) High bending rigidity

Options:

- 1. 🏶 A
- 2. 🗸 B
- 3. **%** C
- 4. * D

Question Number: 64 Question Type: PCV

The relationship between 50% span length of fibre (L_1) and 2.5% span length of fibre (L_2) for a given cotton variety is given by

$$L_1 = \frac{L_2}{2} + 5$$

If standard deviation (SD) of L_2 is 4 mm, that of the L_1 , in mm, would be

Eqttgev'Cpuy gt:

Question Number: 65 Question Type: PCV

The correlation coefficient (r) between two variables is 0.9. The unexplained variation (%) is