

P q v e v k q p u "<

- 1.Options shown in **green** color and with  icon are correct.
- 2.Options shown in **red** color and with  icon are incorrect.

S w g u v k q p " R e r g t " P c o g <

TF: TEXTILE ENGINEERING AND FIBRE SCIENCE 1st Feb Shift2

P w o d g t " q h " S w g u v k q p u <

65

V q v e n " O c t m u <

100.0

Wrong answer for MCQ will result in negative marks, (-1/3) for 1 mark Questions and (-2/3) for 2 marks Questions.

General Aptitude

Number of Questions:

10

Section Marks:

15.0

Q.1 to Q.5 carry 1 mark each & Q.6 to Q.10 carry 2 marks each.

S w g u v k q p " P w o d g t "<" 3 " " S w g u v k q p " V { r g "<" O E S

Choose the appropriate word/phrase, out of the four options given below, to complete the following sentence:

Apparent lifelessness _____ dormant life.

(A) harbours

(B) leads to

(C) supports

(D) affects

Q r v k q p u "<

1.  A

2.  B

3.  C

4.  D

S w g u v k q p " P w o d g t "<" 4 " " S w g u v k q p " V { r g "<" O E S

Fill in the blank with the correct idiom/phrase.

That boy from the town was a _____ in the sleepy village.

(A) dog out of herd

(B) sheep from the heap

(C) fish out of water

(D) bird from the flock

Q r v k q p u "<

1.  A

2.  B

3.  C

4.  D

S w g u v k q p " P w o d g t "<" 5 " " S w g u v k q p " V { r g "<" O E S

Choose the statement where underlined word is used correctly.

- (A) When the teacher eludes to different authors, he is being elusive.
- (B) When the thief keeps eluding the police, he is being elusive.
- (C) Matters that are difficult to understand, identify or remember are allusive.
- (D) Mirages can be allusive, but a better way to express them is illusory.

Qrvkqpu"<

- 1. ✖ A
- 2. ✔ B
- 3. ✖ C
- 4. ✖ D

Swguvkqp"Pwodgt"<"6""Swguvkqp"V{rg"<"OES

Tanya is older than Eric.
Cliff is older than Tanya.
Eric is older than Cliff.

If the first two statements are true, then the third statement is:

- (A) True
- (B) False
- (C) Uncertain
- (D) Data insufficient

Qrvkqpu"<

- 1. ✖ A
- 2. ✔ B
- 3. ✖ C
- 4. ✖ D

Swguvkqp"Pwodgt"<"7""Swguvkqp"V{rg"<"OES

Five teams have to compete in a league, with every team playing every other team exactly once, before going to the next round. How many matches will have to be held to complete the league round of matches?

- (A) 20
- (B) 10
- (C) 8
- (D) 5

Qrvkqpu"<

- 1. ✖ A
- 2. ✔ B
- 3. ✖ C
- 4. ✖ D

Swguvkqp"Pwodgt"<"8""Swguvkqp"V{rg"<"OES

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

Qrvkqpu"<

- 1. ✖ A
- 2. ✖ B
- 3. ✔ C
- 4. ✖ D

Swguvkqp"Pwodgt"<"9"Swguvkqp"V{rg"<"OES

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

Statements:

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

Conclusions:

- I. No manager is an executive.
- II. No executive is a manager.

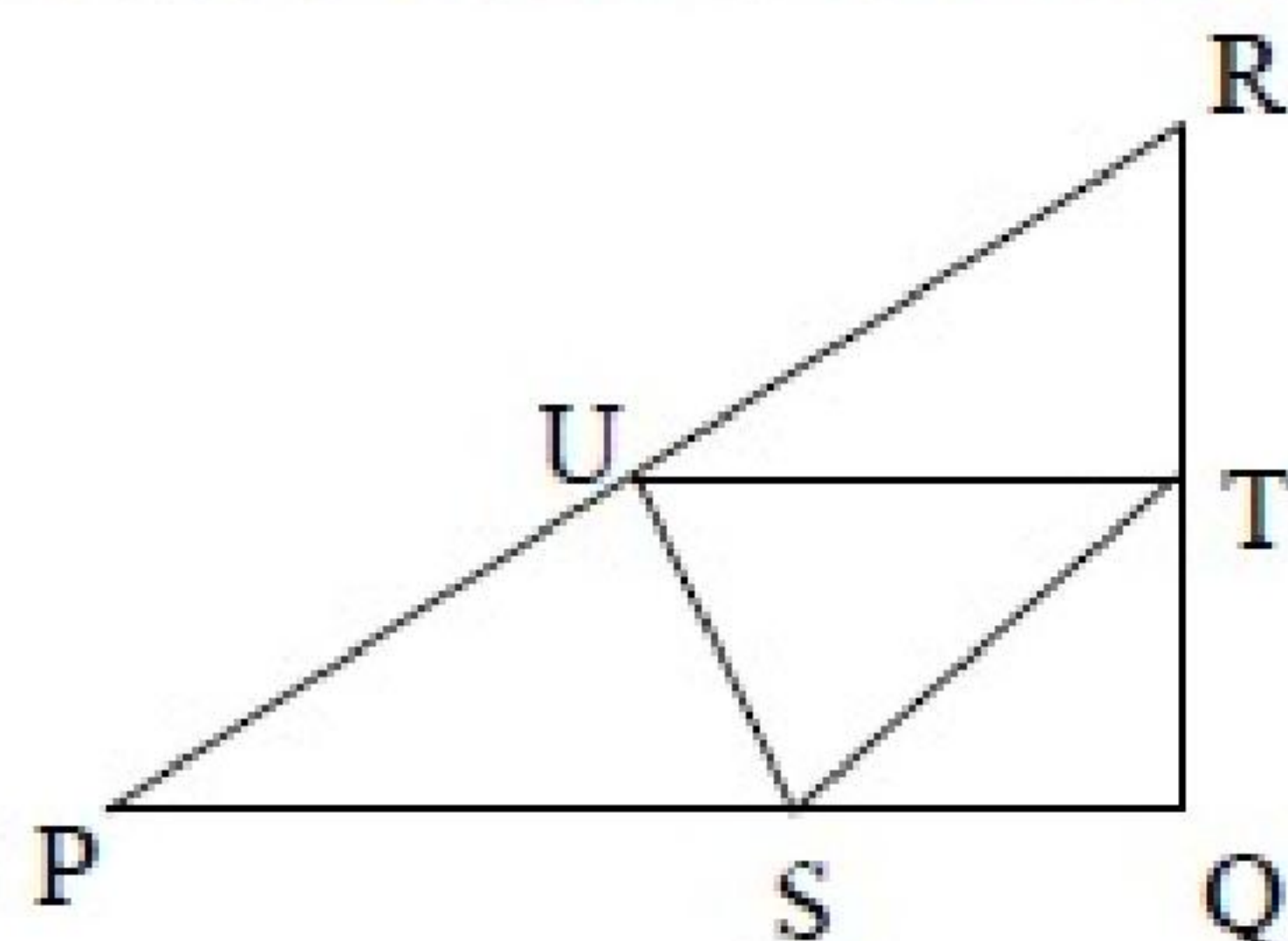
- (A) Only conclusion I follows.
- (B) Only conclusion II follows.
- (C) Neither conclusion I nor II follows.
- (D) Both conclusions I and II follow.

Qrvkqpu"<

- 1. ✖ A
- 2. ✖ B
- 3. ✔ C
- 4. ✖ D

Swguvkqp"Pwodgt"<:"Swguvkqp"V{rg"<"PCV

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 _____.



Eqttgev"Cpuygt"<

Swgukqp"Pwodgt"<"Swgukqp"V{rg"<"OES

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: $-4 \leq x \leq 5$ and $6 \leq y \leq 16$. How many different triangles could be constructed with these properties?

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

Qrvkqpu"<

1. ✖ A
2. ✖ B
3. ✔ C
4. ✖ D

Swgukqp"Pwodgt"<"32"Swgukqp"V{rg"<"OES

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

Qrvkqpu"<

1. ✖ A
2. ✔ B
3. ✖ 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.

Swgukqp"Pwodgt"<"33"Swgukqp"V{rg"<"PCV

If 3 and 4 are two eigen values 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 _____

Eqttgev"Cpuygt"<

2

Swgukqp"Pwodgt"<"34"Swgukqp"V{rg"<"PCV

If a continuous random variable X has probability density function

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

then the value of a is _____

Eqttgev"Cpuygt"<

3

Swgukqp"Pwodgt"<"35"Swgukqp"V{rg"<"PCV

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

Eqttgev"Cpuygt"<

1

Swgukqp"Pwodgt"<"36"Swgukqp"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"Cpuygt"<

1

Swgukqp"Pwodgt"<"37"Swgukqp"V{rg"<"PCV

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

Eqttgev"Cpuygt"<

2

Swguvkqp"Pwodgt"<"38""Swguvkqp"V{rg"<"OES

The gum in the raw silk filament is

- (A) Wax (B) Lignin (C) Sericin (D) Fibroin

Qrvkqpu"<

1. ✖ A
2. ✖ B
3. ✔ C
4. ✖ D

Swguvkqp"Pwodgt"<"39""Swguvkqp"V{rg"<"OES

For production of dry-spun acrylic fibre, the suitable solvent for dope preparation is

- (A) Acetone
(B) *N,N'* Dimethyl formamide
(C) Formic acid
(D) Aqueous sodium thiocyanate (55 wt%)

Qrvkqpu"<

1. ✖ A
2. ✔ B
3. ✖ C
4. ✖ D

Swguvkqp"Pwodgt"<"3:"Swguvkqp"V{rg"<"OES

Adipic acid is a monomer for the production of

- (A) Poly(ethylene terephthalate)
(B) Nylon 66
(C) Nylon 64
(D) Nylon 610

Qrvkqpu"<

1. ✖ A
2. ✔ B
3. ✖ C
4. ✖ D

Swguvkqp"Pwodgt"<"3;"Swguvkqp"V{rg"<"OES

In melt spinning line, the melting of solid polymer and its homogenization takes place in

- (A) Manifold
(B) Extruder
(C) Metering pump
(D) Quench duct

Qrvkqpu"<

1. ✖ A
2. ✔ B
3. ✖ C

4. ✖ D

Swgukqp"Pwodgt"<"42"Swgukqp"V{rg"<"OES

The blending technique that gives the most homogeneous mixing of fibres is

- (A) Lap blending (B) Tuft blending (C) Sliver blending (D) Roving blending

Qrvkqpu"<

1. ✖ A

2. ✔ B

3. ✖ C

4. ✖ D

Swgukqp"Pwodgt"<"43"Swgukqp"V{rg"<"OES

In a cotton comber, noil extraction increases

- (A) With a decrease in detachment setting
(B) With an increase in pre-combing draft
(C) If majority of hooks are presented in leading direction
(D) With an increase in short fibres

Qrvkqpu"<

1. ✖ A

2. ✖ B

3. ✖ C

4. ✔ D

Swgukqp"Pwodgt"<"44"Swgukqp"V{rg"<"OES

The bottom roller surface used for driving aprons in ringframe drafting system is

- (A) Knurled
(B) Axially fluted
(C) Spirally fluted
(D) Smooth

Qrvkqpu"<

1. ✔ A

2. ✖ B

3. ✖ C

4. ✖ D

Swgukqp"Pwodgt"<"45"Swgukqp"V{rg"<"OES

If the numerical value of yarn linear density expressed in Tex and that in English system is the same, this value to the nearest integer is

- (A) 30 (B) 28 (C) 24 (D) 22

Qrvkqpu"<

1. ✖ A

2. ✖ B

3. ✔ C

4. ✖ D

Swgukqp"Pwodgt"<"46""Swgukqp"V{rg"<"OES

Patterning is most likely to occur in

- (A) Precision winding
- (B) Random winding
- (C) Step-precision winding
- (D) Pirm winding

Qrvkqpu"<

- 1. ✖ A
- 2. ✔ B
- 3. ✖ C
- 4. ✖ D

Swgukqp"Pwodgt"<"47""Swgukqp"V{rg"<"OES

In cotton yarn sizing, the starch primarily acts as

- (A) Binding agent
- (B) Lubricating agent
- (C) Antistatic agent
- (D) Antimicrobial agent

Qrvkqpu"<

- 1. ✔ A
- 2. ✖ B
- 3. ✖ C
- 4. ✖ D

Swgukqp"Pwodgt"<"48""Swgukqp"V{rg"<"OES

Purl is a

- (A) Woven structure
- (B) Nonwoven structure
- (C) Braided structure
- (D) Knitted structure

Qrvkqpu"<

- 1. ✖ A
- 2. ✖ B
- 3. ✖ C
- 4. ✔ D

Swgukqp"Pwodgt"<"49""Swgukqp"V{rg"<"OES

The technology/ies used for producing SMS fabric is/are

- (A) Spunlace
- (B) Spunlace and Meltblown
- (C) Needle punch
- (D) Spunbond and Meltblown

Qrvkqpu"<

- 1. ✖ A
- 2. ✖ B
- 3. ✖ C
- 4. ✔ D

Swgukqp"Pwodgt"<"4:"Swgukqp"V{rg"<"OES

Jigger **CANNOT** be used for

- (A) Dyeing
- (B) Printing
- (C) Washing
- (D) Scouring

Qrvkqpu"<

- 1. ✖ A
- 2. ✔ B
- 3. ✖ C
- 4. ✖ D

Swgukqp"Pwodgt"<"4;"Swgukqp"V{rg"<"OES

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

Qrvkqpu"<

- 1. ✖ A
- 2. ✖ B
- 3. ✔ C
- 4. ✖ D

Swgukqp"Pwodgt"<"52"Swgukqp"V{rg"<"OES

Milling is associated with the processing of

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

Qrvkqpu"<

- 1. ✖ A
- 2. ✖ B
- 3. ✖ C
- 4. ✔ D

Swgukqp"Pwodgt"<"53"Swgukqp"V{rg"<"OES

Dyed wool fabric standards are used for the evaluation of

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

Qrvkqpu"<

1. ✖ A
2. ✖ B
3. ✖ C
4. ✔ D

Swguvkqp"Pwodgt"<"54""Swguvkqp"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

Qrvkqpu"<

1. ✔ A
2. ✖ B
3. ✖ C
4. ✖ D

Swguvkqp"Pwodgt"<"55""Swguvkqp"V{rg"<"OES

The property that Kawabata Evaluation System (KES) **DOES NOT** measure is

- (A) Shear rigidity
- (B) Bending rigidity
- (C) Compressional resilience
- (D) Tensile strength

Qrvkqpu"<

1. ✖ A
2. ✖ B
3. ✖ C
4. ✔ D

Swguvkqp"Pwodgt"<"56""Swguvkqp"V{rg"<"OES

On absorption of moisture, the thermal insulation of cotton fabric will

- (A) Decrease
- (B) Increase
- (C) Remain the same
- (D) First increase and then decrease

Qrvkqpu"<

1. ✔ A
2. ✖ B
3. ✖ C
4. ✖ D

Swguvkqp"Pwodgt"<"57""Swguvkqp"V{rg"<"OES

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) $UCL = (USL)^3$

Qrvkqpu"<

1. ✓ A
2. ✗ B
3. ✗ C
4. ✗ D

Swguvkqp"Pwodgt"<"58""Swguvkqp"V{rg"<"PCV

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

Eqttgev"Cpuygt"<

2

Swguvkqp"Pwodgt"<"59""Swguvkqp"V{rg"<"OES

Out of the following, the exact differential equation is

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

Qrvkqpu"<

1. ✗ A
2. ✓ B
3. ✗ C
4. ✗ D

Swguvkqp"Pwodgt"<"5:"Swguvkqp"V{rg"<"PCV

Let $f : [1, 4] \rightarrow \mathbb{R}$ be a continuous function such that $f(1) = 0.32$, $f(2) = 0.125$, $f(3) = 0.025$

and $f(4) = 0.05$. 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 _____

Eqttgev"Cpuygt"<

0.335

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

Options :

1. ✖ A
2. ✖ B
3. ✔ C
4. ✖ D

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. ✖ B
3. ✖ C
4. ✖ D

Question Number : 41 Question Type : MCQ

If T_g , T_m , and T_c represent the glass transition, melting and crystallization temperature, respectively, the correct relationship is

- (A) $T_g < T_c < T_m$
(B) $T_g < T_m < T_c$
(C) $T_c < T_g < T_m$
(D) $T_m < T_g < T_c$

Options :

1. ✔ A
2. ✖ B
3. ✖ C
4. ✖ D

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

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. ✖ B
- 3. ✖ C
- 4. ✖ D

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

Column II

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

- (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

2. ✖ B
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"Cpuygt :

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"Cpuygt :

20

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 _____

Eqttgev"Cpuygt :

Question Number : 49 Question Type : PCV

A rotor of 2 inch diameter is spinning a yarn of 16^s 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"Cpuygt :

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"Cpuygt :

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. ✖ 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"Cpuygt :

4

Question Number : 53 Question Type : PCV

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"Cpuygt :

10

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"Cpuygt :

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 :

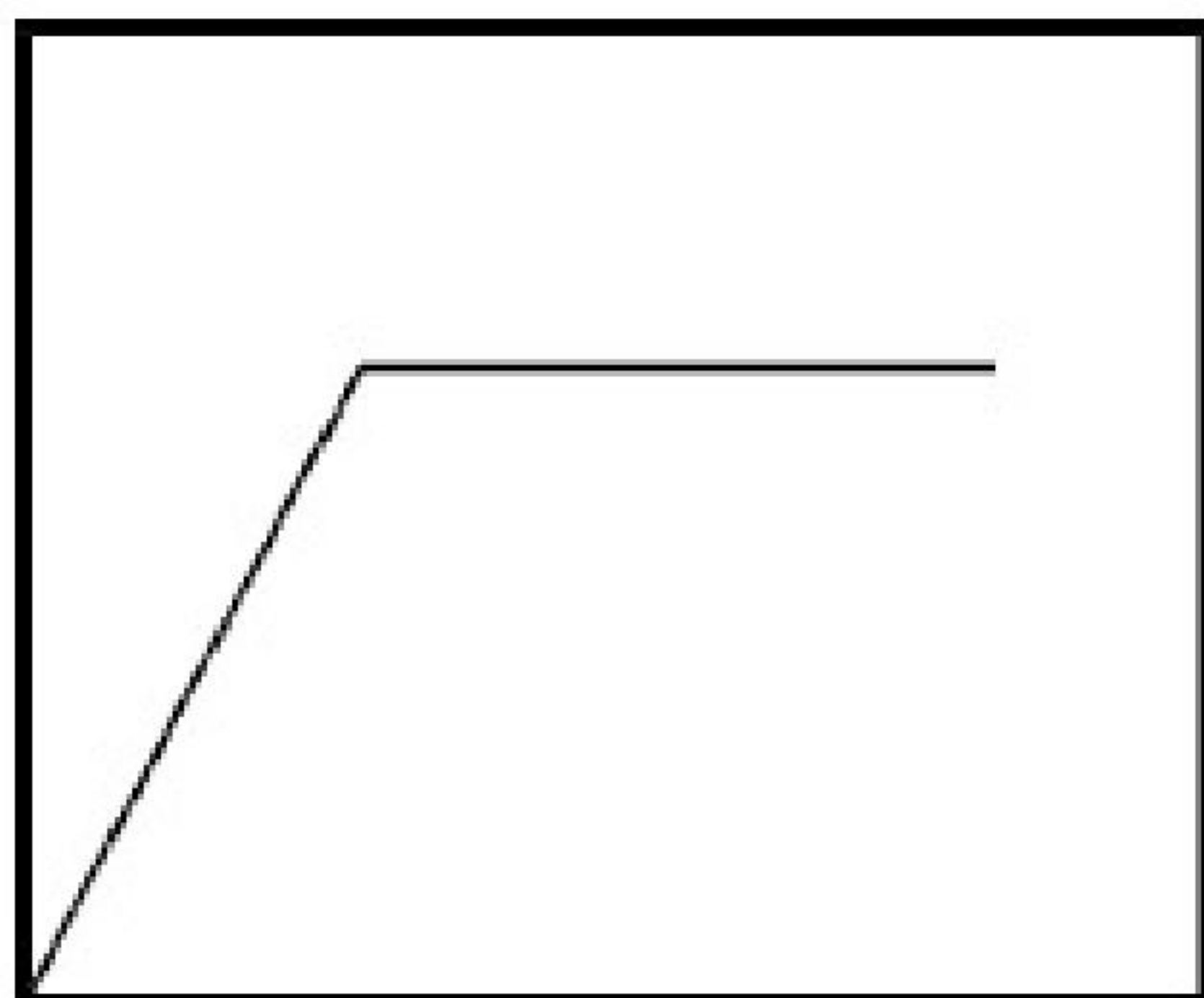
- 1. ✖ A
- 2. ✖ B
- 3. ✔ C
- 4. ✖ D

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

(A)

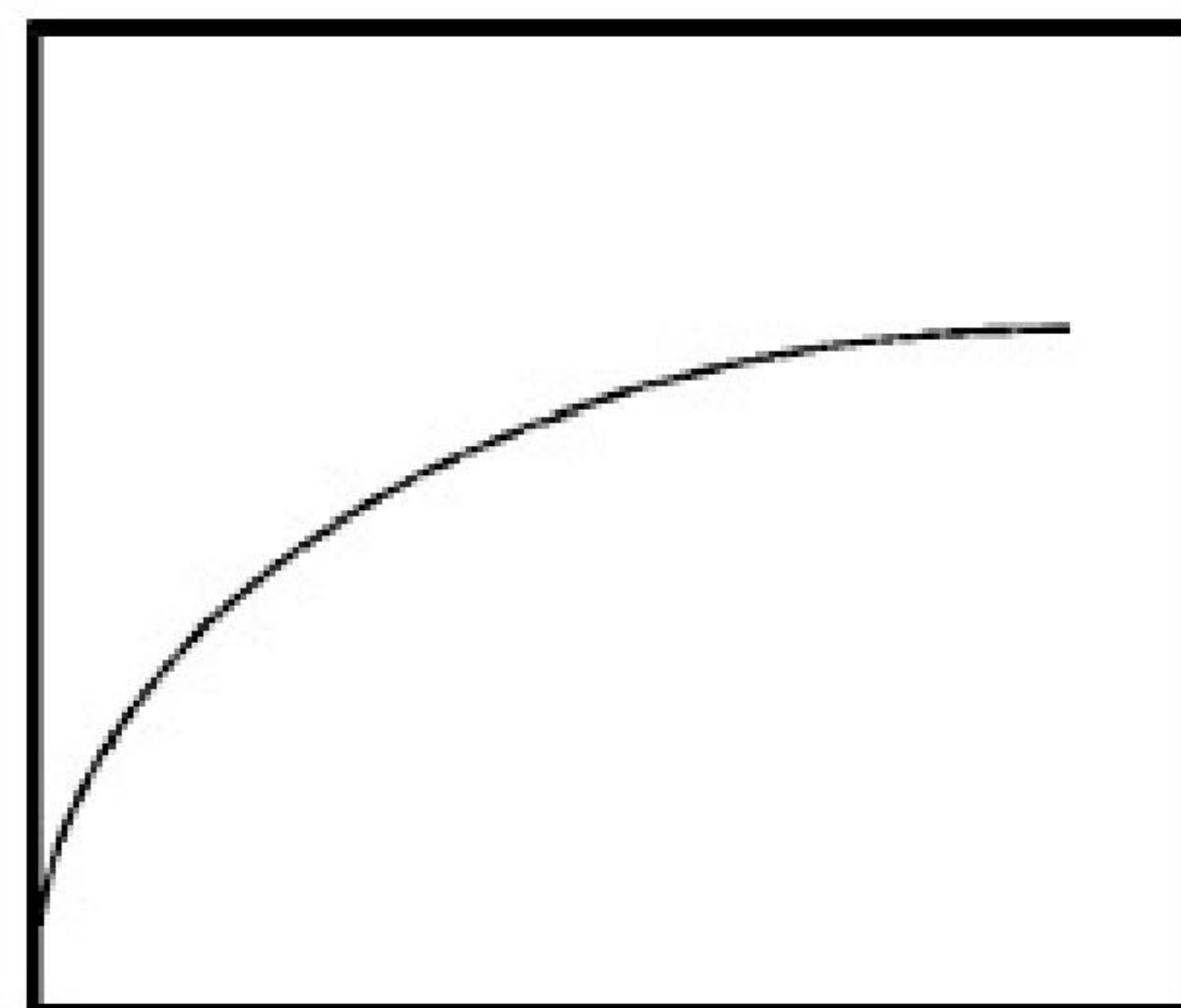
$[C_f]$



$[C_s]$

(B)

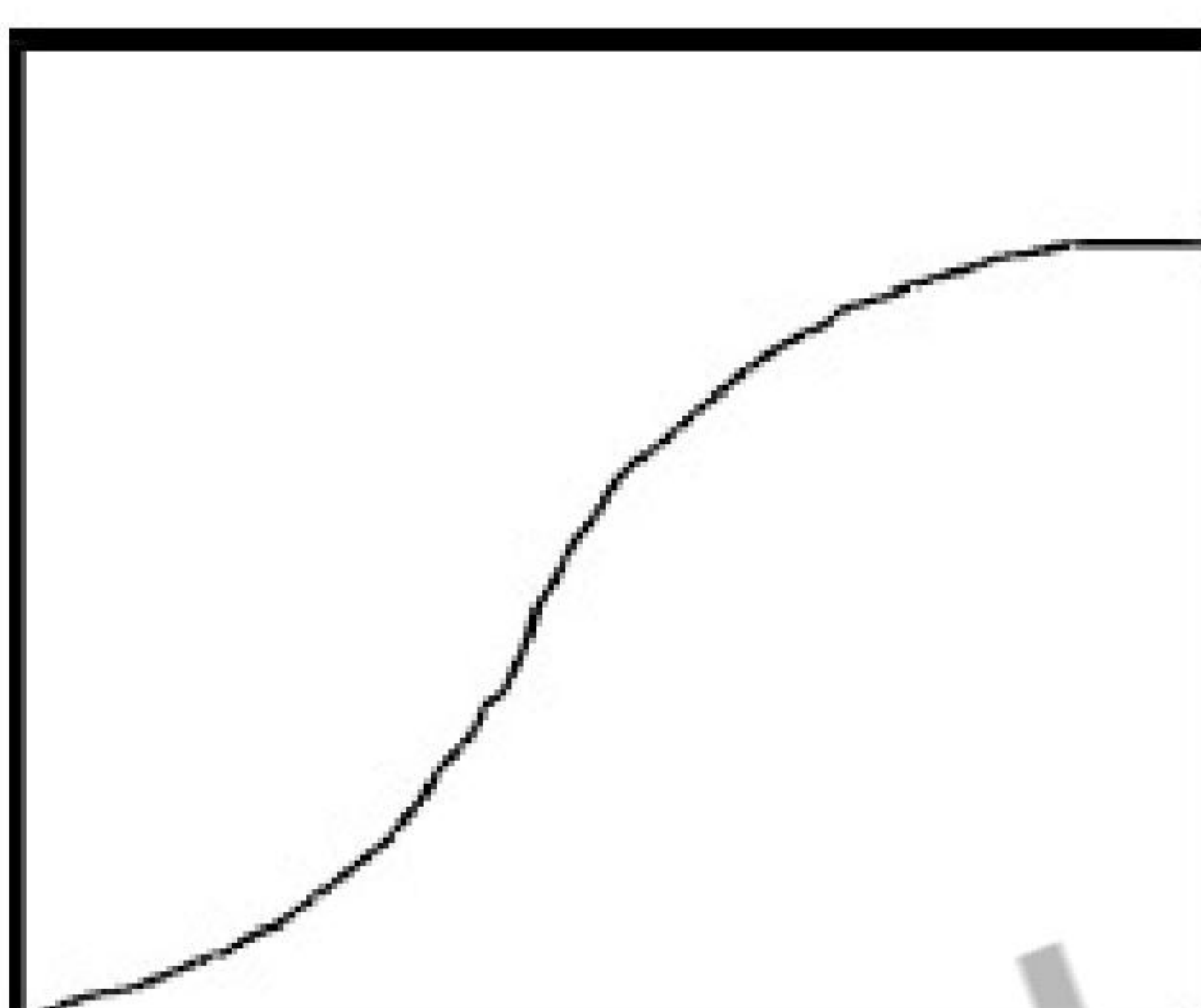
$[C_f]$



$[C_s]$

(C)

$[C_f]$



$[C_s]$

(D)

$[C_f]$



$[C_s]$

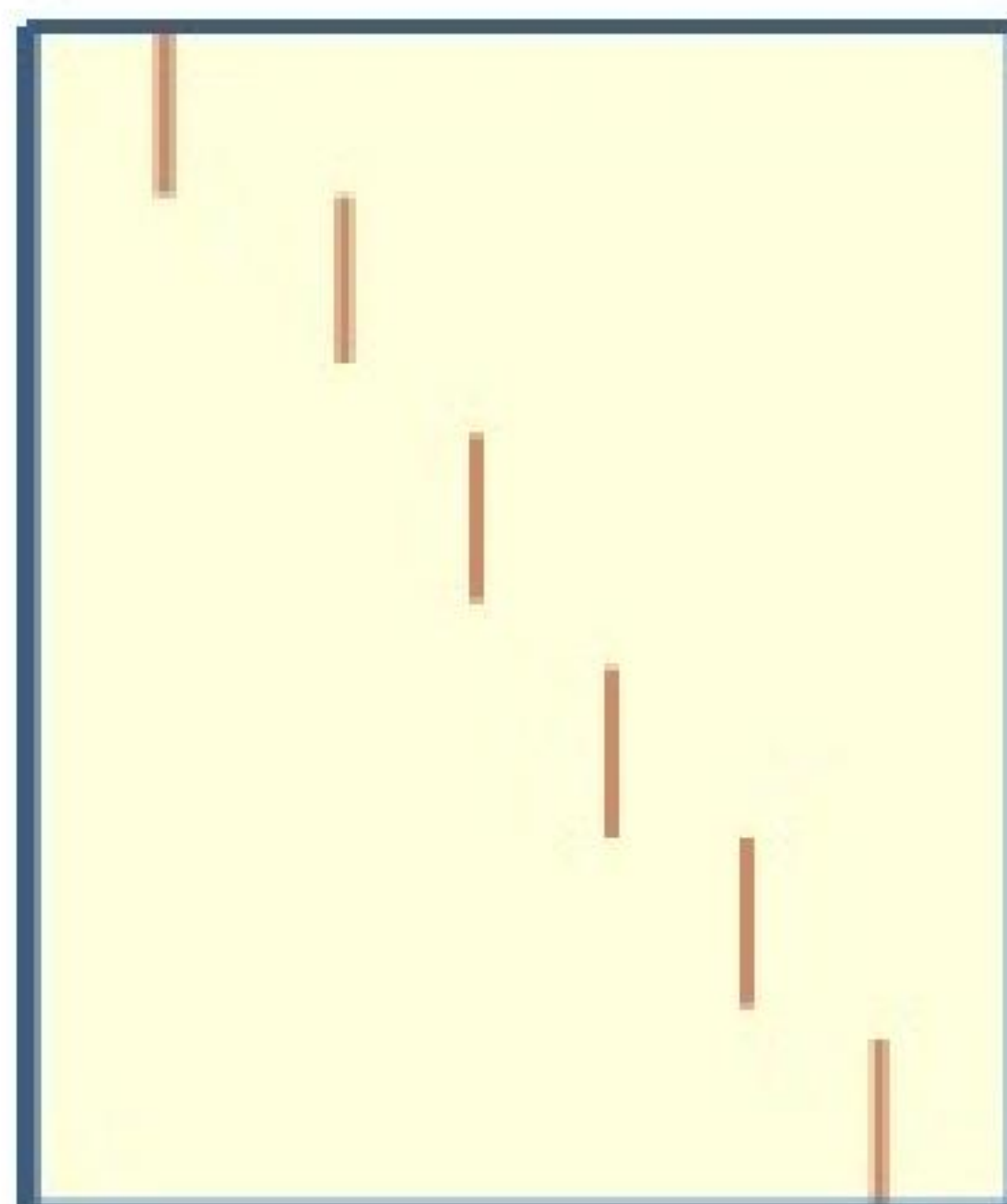
Options :

1. ✓ A
2. ✗ B
3. ✗ C
4. ✗ D

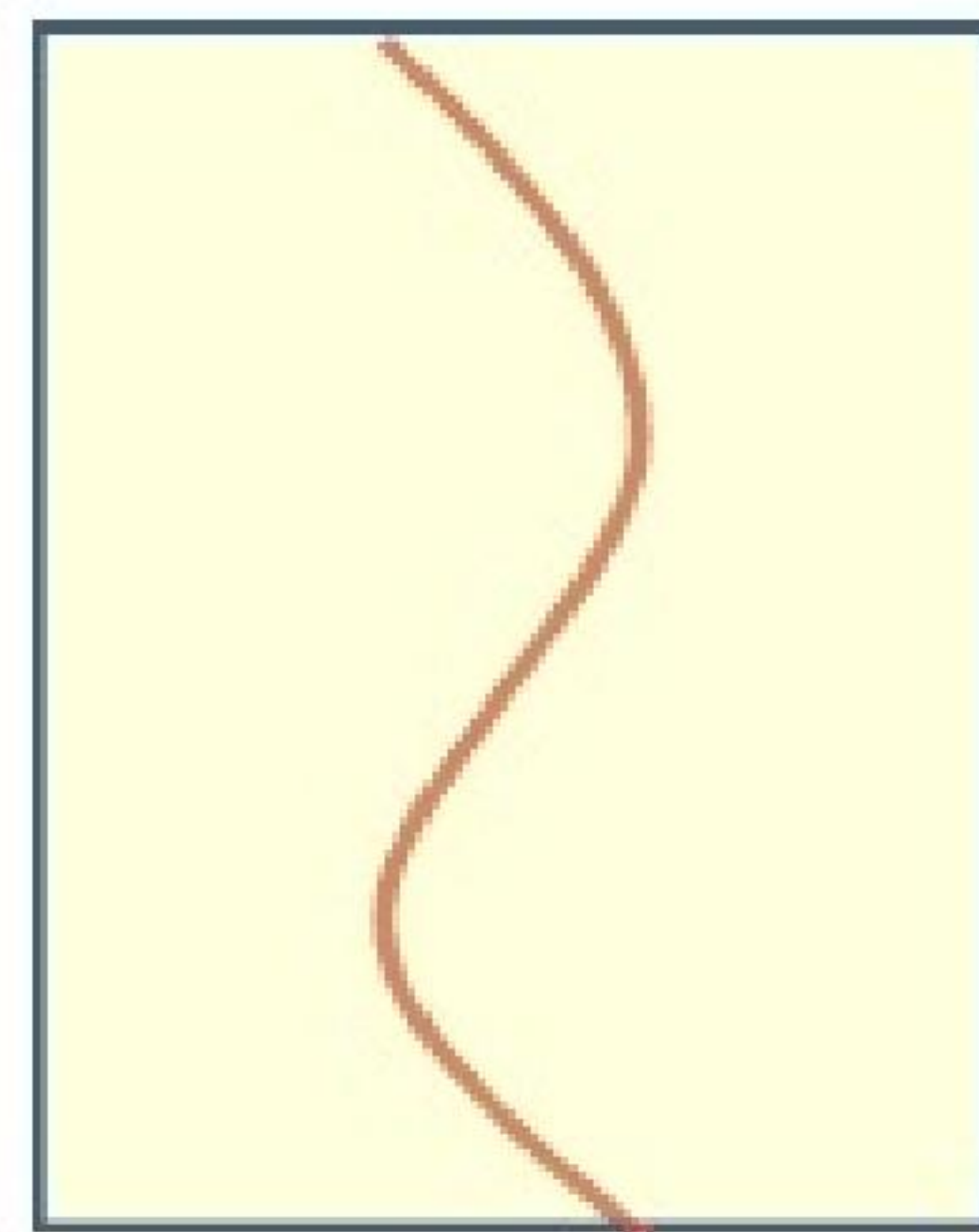
Question Number : 57 Question Type : MCQ

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

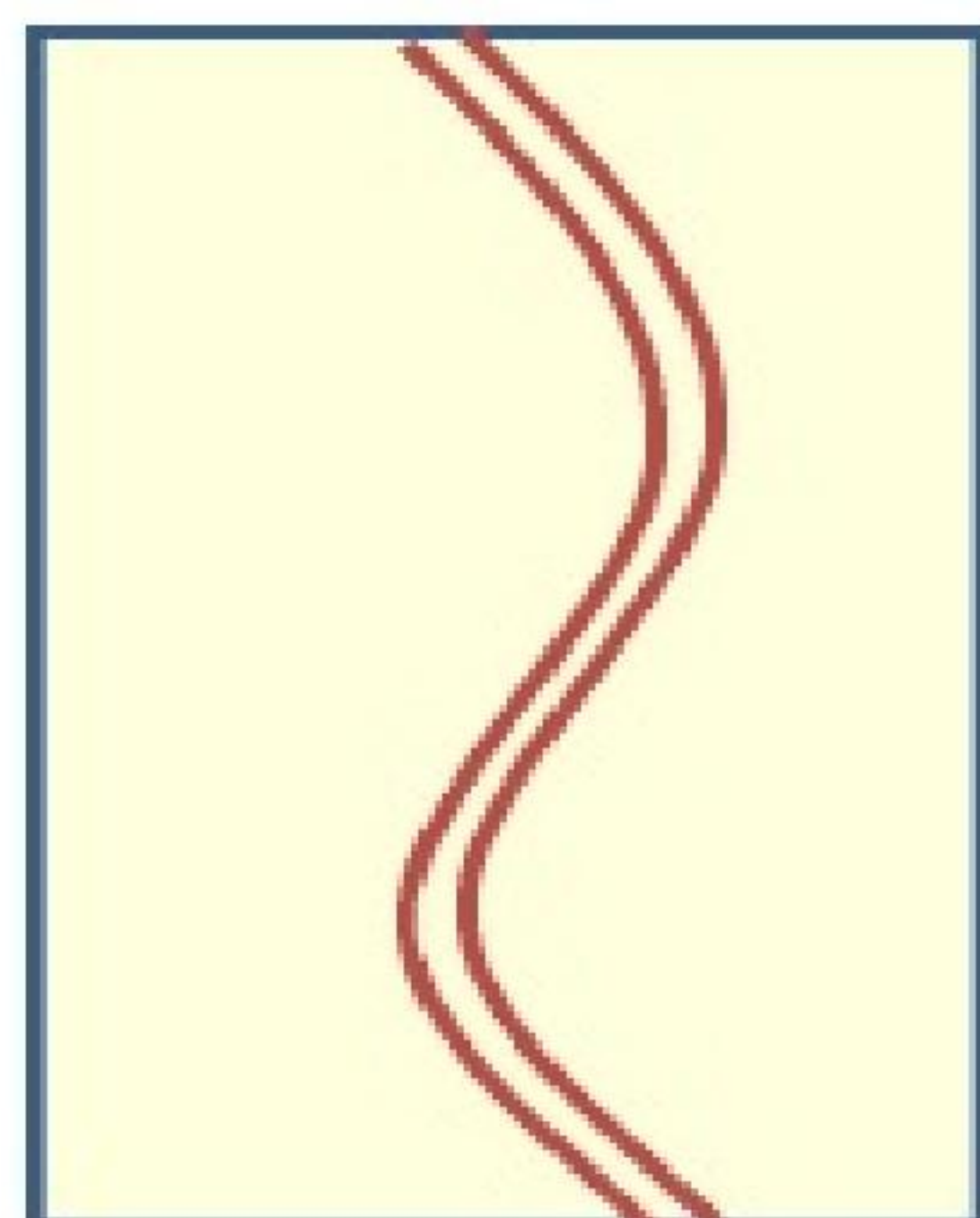
(A)



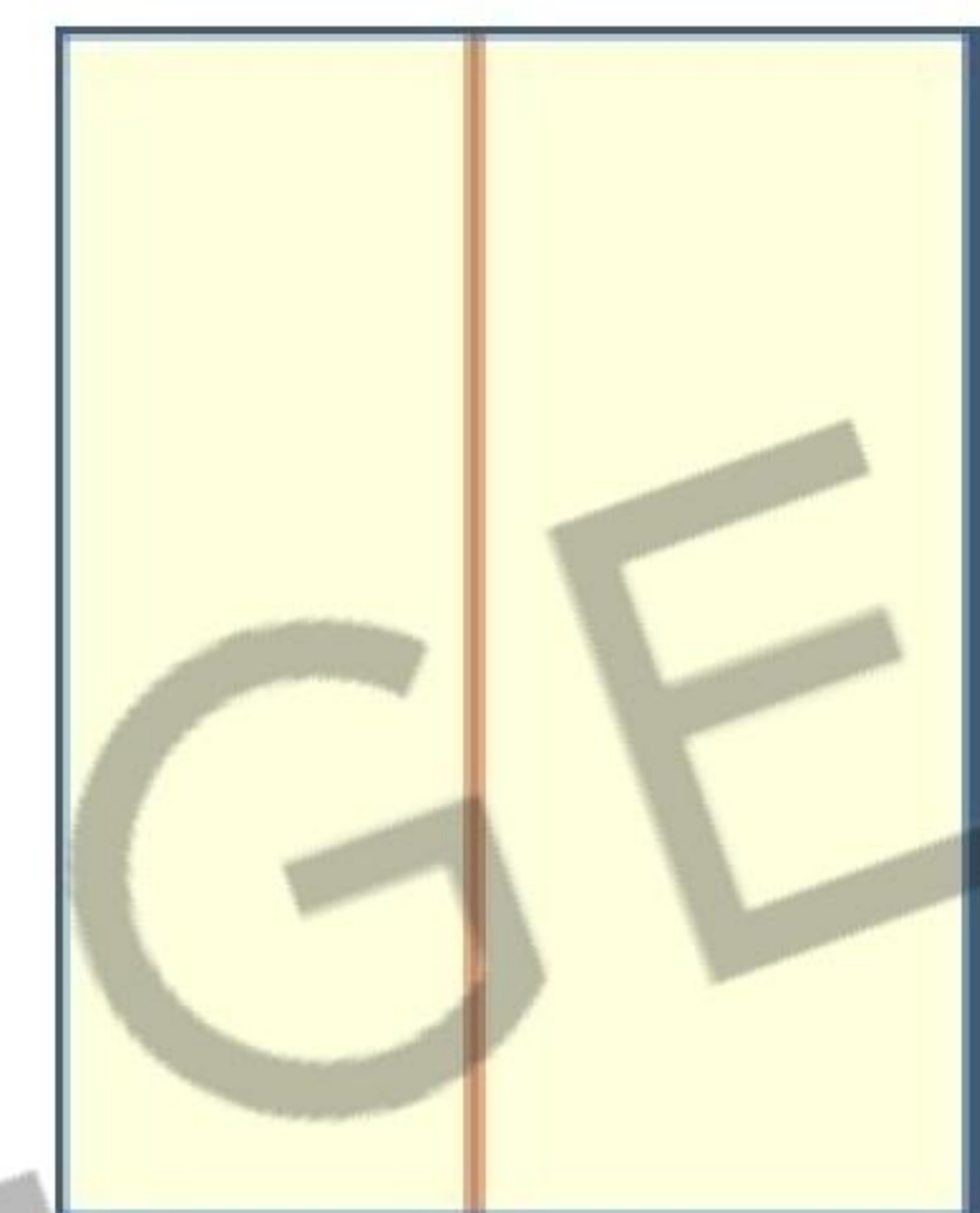
(B)



(C)



(D)



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. ✗ 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
- (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 : 60 Question Type : MCQ

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 _____

Equation Type :

0.5

Question Number : 62 Question Type : MCQ

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 _____

Equation Type :

2

Question Number : 65 Question Type : PCV

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

Equation Type :

Z@LLEGE.in