DIPLOMA - COMMON ENTRANCE TEST-2016

TX COURSE DAY: SUNDAY
TEXTILE TECHNOLOGY TIME: 10.00 a.m. to 1.00 p.m.

MAXIMUM MARKS	TOTAL DURATION	MAXIMUM TIME FOR ANSWERING
180	200 MINUTES	180 MINUTES

MENTION YOUR	QUESTION BOOKLET DETAILS				
DIPLOMA CET NUMBER	VERSION CODE	SERIAL NUMBER			
	A - 1	125681			

DOs:

- Check whether the Diploma CET No. has been entered and shaded in the respective circles on the OMR answer sheet.
- 2. This Question Booklet is issued to you by the invigilator after the 2nd Bell i.e., after 09.50 a.m.
- 3. The Serial Number of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely.
- 4. The Version Code of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely.
- 5. Compulsorily sign at the bottom portion of the OMR answer sheet in the space provided.

DON'Ts:

- 1. THE TIMING AND MARKS PRINTED ON THE OMR ANSWER SHEET SHOULD NOT BE DAMAGED/MUTILATED/SPOILED.
- 2. The 3rd Bell rings at 10.00 a.m., till then;
 - Do not remove the paper seal / polythene bag of this question booklet.
 - Do not look inside this question booklet.
 - Do not start answering on the OMR answer sheet.

IMPORTANT INSTRUCTIONS TO CANDIDATES

- 1. This question booklet contains 180 (items) questions and each question will have one statement and four answers. (Four different options / responses.)
- 2. After the 3rd Bell is rung at 10.00 a.m., remove the paper seal / polythene bag of this question booklet and check that this booklet does not have any unprinted or torn or missing pages or items etc., if so, get it replaced by a complete test booklet. Read each item and start answering on the OMR answer sheet.
- 3. During the subsequent 180 minutes:
 - Read each question (item) carefully.
 - Choose one correct answer from out of the four available responses (options / choices) given under each question / item. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose only one response for each item.
 - Completely darken / shade the relevant circle with a BLUE OR BLACK INK BALL POINT PEN
 against the question number on the OMR answer sheet.

Correct Method of shading the circle on the OMR answer sheet is as shown below:

- 4. Use the space provided on each page of the question booklet for Rough Work. Do not use the OMR answer sheet for the same.
- 5. After the last Bell is rung at 1.00 p.m., stop marking on the OMR answer sheet and affix your left hand thumb impression on the OMR answer sheet as per the instructions.
- 6. Hand over the OMR ANSWER SHEET to the room invigilator as it is.
- 7. After separating the top sheet (KEA copy), the invigilator will return the bottom sheet replica (Candidate's copy) to you to carry home for self-evaluation.
- 8. Preserve the replica of the OMR answer sheet for a minimum period of ONE year.

TX-A1



PART - A

APPLIED SCIENCE

1.	An e	xample of basic S.I. unit is		
	(A)	Newton	(B)	Joule
	(C)	Ampere	(D)	Watt
2.	The	prefix used for 10 ⁺² is		
	(A)	hecta	(B)	centi
	(C)	pico	(D)	peta
3.	An e	example of dimensionless physical	quanti	ty is
	(A)	surface tension	(B)	strain
	(C)	impulse	(D)	period
4.	The	velocity of a freely falling body gr	adually	y as it falls.
	(A)	decreases	(B)	increases
	(C)	remains same	(D)	increases and then decreases
5.		nain scale is divided into half mm a	nd hav	ring a vernier containing 20 divisions has a
	(A)	2.5×10^{-2}	(B)	0.5×10^{-2}
	(C)	0.025×10^{-2}	(D)	0.25×10^{-2}
6.		a particular mass of the moving ho	ody, its	friction is minimum when it is
6.	For	a particular mass of the moving of		
6.	For (A)		(B)	

7.	All eq	uations of motion hold good under	the co	ondition of
		constant velocity	(B)	constant acceleration
	(C)	variable velocity	(D)	variable acceleration
8.		ce of 1.5×10^{-2} N acts for 3 second. The final velocity of the body is	ds on a	a body of mass 0.05 kg moving with velocity
	(A)	4.9 m/s	(B)	18 m/s
	(C)	9 m/s	(D)	7.5 m/s
9.	To ch	neck the equilibrium of five coplan	ar con	current forces, we use law of
	(A)	Parallelogram of forces	(B)	Triangle of forces
	(C)	Lami's theorem	(D)	Polygon of forces
10.	The	S.I. unit of momentum is		
	(A)	kg m	(B)	$kg m^{-1}s^{-1}$
	(C)	$kg m s^{-2}$	(D)	$kg m s^{-1}$
11.		en three forces acting at a point are ays angle.	in equ	ilibrium, the angle opposite to biggest force is
	(A)	biggest	(B)	smallest
	(C)	equal to other	(D)	obtuse
12.	Tov	ving of a boat by two forces is an il	lustrat	ion of
	(A)	Law of parallelogram of forces.	(B)	Lami's theorem.
	(C)	Law of triangle of forces.	(D)	Law of polygon of forces.
		Smann i	For Do	angh Work

(A)	8 N	(B)	4 N	
(C)	7 N	(D)	49 N	
4. Dim	ensional formula for stress is			
(A)	$[LM^{-1}T^{-2}]$	(B)	$[L^{-1}MT^{-2}]$	
(C)	$[L^{-1}M^{-1}T]$	(D)	$[L^2M^{-1}T^{-2}]$	
5. The	pull in the bicycle chain is an	example of		
(A)	tensile stress	(B)	volume stress	
(C)	shear stress	(D)	shear strain	
6. Vis	cosity of water at 20 °C in cent	tipoise is		
(A)	1.792	(B)	0.650	
(C)	1.005	(D)	0.470	
7. Dir	nensional formula of surface te	ension is		
(A)	[LMT ⁻²]	(B)	$[L^2MT^{-2}]$	
(C)	$[LM^{-1}T^{-2}]$	(D)	$[L^0MT^{-2}]$	
8. As	steel needle can be floated on the	ne surface o	f water because of the	
(A)	density of steel is greater that	an water		
(B)	density of steel is less than	water		
(C	surface tension			

(D) viscosity

19.		t on the bottom of the container have t of 6 m is	ving a	base area of 10 m ² filled with water to a
	(A)	$60 \times 10^2 \mathrm{N}$	(B)	$58.8 \times 10^4 \mathrm{N}$
	(C)	60.8 N	(D)	600 N
20.	Keep	ing the temperature constant, if the	pressi	ure of the gas is doubled its volume
	(A)	remains constant	(B)	doubles
	(C)	reduces to one fourth	(D)	reduces to half
21.	Heat	transfer in the absence of the medi		· · · · · · · · · · · · · · · · · · ·
	(A)	conduction	(B)	convection
	(C)	radiation	(D)	absorption
22.	7.erc	of absolute scale of temperature is	at	
	(A)		(B)	100 °C
	(C)	273 °C	(D)	−273 °C
23.	Rip	ples on water surface is an example	of	
	(A)	electromagnetic waves	(B)	transverse waves
	(C)	waves travelling in space	(D)	longitudinal waves
24.	The	e time interval between two consecu	ıtive w	vaxing and waning of sound waves is
	(A)		(D)	
	(C)		(D)	wave frequency
-	- U	Snace	For Ro	ough Work

5

- 25. S.I. unit of intensity of sound is
 - (A) watt per square meter
- (B) watt per meter

(C) watt square meter

- (D) watt meter
- 26. The study of characteristics of buildings with reference to sound is
 - (A) resonance

(B) interference

(C) echo

- (D) acoustics
- 27. The distance travelled by the disturbance in the medium for one complete oscillation is
 - (A) wave velocity

(B) wavelength

(C) wave frequency

- (D) wave amplitude
- 28. Momentum of a photon is given by
 - (A) $P = \frac{\lambda}{h}$

(B) $P = \frac{h}{\lambda}$

(C) $P = \lambda h$

- (D) $P = \lambda^2 h$
- 29. The velocity of sound in case of liquids is given by
 - (A) $\sqrt{\frac{d}{k}}$

(B) \sqrt{kd}

(C) $\sqrt{\frac{k}{d}}$

- (D) $\sqrt{\frac{d^2}{k}}$
- 30. A tuning fork vibrating in air is an example of
 - (A) damped free vibrations
- (B) resonant vibrations
- (C) undamped free vibrations
- (D) forced vibrations

- 31. Raman lines are
 - (A) unpolarised

(B) polarised

(C) diffracted

- (D) reflected
- 32. A crystal which has two optic axes is
 - (A) calcite

(B) quartz

(C) mica

- (D) glass
- 33. Electron microscope is used to
 - (A) study virus and bacteria
 - (B) view three dimensional images
 - (C) automatic switching on and off of street-lights
 - (D) electronic industry for soldering
- 34. Which of the following statements is correct in case of γ -rays?
 - (A) Penetrating power is less than β -rays.
 - (B) Penetrating power is less than α -rays.
 - (C) Penetrating power is very high.
 - (D) γ particles are nothing but electrons.
- 35. For destructive interference of light the path difference should always be
 - (A) $(2n+1)\frac{\lambda}{2}$

(B) $\frac{n\lambda}{2}$

(C) $(2n+1)\frac{\lambda}{3}$

(D) $n\lambda$

- 36. The resultant intensity of interference of two monochromatic waves having same amplitude and constant phase difference equal to ϕ is
 - (A) $2a \cos\left(\frac{\phi}{2}\right)$

(B) $4a^2\cos^2\left(\frac{\phi}{2}\right)$

(C) $4a^2\cos\left(\frac{\phi}{2}\right)$

- (D) $4a \cos^2\left(\frac{\phi}{2}\right)$
- 37. For two objects to be just resolved, the principle maximum should be on
 - (A) first maximum

(B) second maximum

(C) first minimum

- (D) second minimum
- 38. Resolving power of microscope is given by
 - $(A) \quad \frac{\lambda}{2n\sin\theta}$

(B) $\frac{n}{2\lambda\sin\theta}$

(C) $\frac{2\lambda \sin \theta}{n}$

- (D) $\frac{2n \sin \theta}{\lambda}$
- 39. In case of acids, the concentration of H⁺ ions is
 - (A) more than 10^{-7} g ions/litre.
 - (B) less than 10^{-7} g ions/litre.
 - (C) equal to 10^{-7} g ions/litre.
 - (D) between 10^{-7} g ions/litre and 10^{-14} g ions/litre.
- 40. Corrosion of metal can be prevented by keeping it in
 - (A) acidic medium

(B) basic medium

(C) neutral medium

(D) moisture

PART – B APPLIED MATHEMATICS

- 41. The value of the determinant $A = \begin{vmatrix} 1 & 1 & 1 \\ 3 & 3 & 3 \\ 4 & 5 & 6 \end{vmatrix}$ is
 - (A) 1

(B) 3

(C) -2

- (D) 0
- 42. The value 'x' by Cramer's rule in 3x + 2y = 4 and x 2y = 8 is
 - (A) 12

(B) 3

(C) -13

- (D) 15
- 43. If $A = \begin{bmatrix} 2 & -3 \\ 1 & 5 \end{bmatrix}$ $B = \begin{bmatrix} 1 & 2 \\ 4 & -3 \end{bmatrix}$, then A + 2B is
 - $(A) \quad \begin{bmatrix} 4 & 1 \\ 9 & -1 \end{bmatrix}$

(B) $\begin{bmatrix} 4 & 1 \\ 9 & 1 \end{bmatrix}$

(C) $\begin{bmatrix} 3 & -1 \\ 5 & 2 \end{bmatrix}$

- (D) $\begin{bmatrix} 3 & 1 \\ 5 & 2 \end{bmatrix}$
- 44. If $A = \begin{bmatrix} 2 & 3 & 4 \\ -2 & x & -4 \\ -5 & 6 & 7 \end{bmatrix}$ is singular, then the value of x is
 - (A) -3

(B) 3

(C) $\frac{1}{3}$

(D) $\frac{-1}{3}$

- 45. The characteristic roots of the matrix $A = \begin{bmatrix} 1 & 4 \\ 3 & 2 \end{bmatrix}$ is
 - (A) 5, 2

(B) -5, -2

(C) 5, -2

- (D) −5, 2
- 46. If ${}^{n}C_{16} = {}^{n}C_{3}$, then the value of n is
 - (A) -19

(B) 19

(C) 13

- (D) -13
- 47. The last term in the expansion of $\left(3x^2 + \frac{1}{2x^2}\right)^4$ is
 - $(A) \quad \frac{1}{8x^8}$

(B) $\frac{1}{16x^8}$

(C) $81 x^8$

- (D) $12 x^8$
- 48. The unit vector of $\vec{a} = 2i 3j + 4k$ is
 - $(A) \quad \frac{2i-3j+4k}{\sqrt{29}}$

 $(B) \quad \frac{2i-3j+4k}{\sqrt{11}}$

 $(C) \quad \frac{2i-3j+4k}{\sqrt{3}}$

- (D) $\frac{\sqrt{29}}{2i-3j+4k}$
- 49. If $\vec{a} = i 4j + 3k$ and $\vec{b} = -2i + j + 6k$, then the projection of \vec{a} on \vec{b} is
 - (A) $\frac{24}{\sqrt{41}}$

(B) $\frac{12}{\sqrt{26}}$

(C) $\frac{-12}{\sqrt{41}}$

(D) $\frac{12}{\sqrt{41}}$

50. The area of triangle whose two sides are $\vec{a} = 3i + 4j + k$ and $\vec{b} = 5i + 6j + 2k$ is

(A) 3 sq. units

(B) $\frac{1}{2}$ sq. units

(C) $\frac{3}{2}$ sq. units

(D) $\frac{9}{2}$ sq. units

51. The simplification of $\frac{1}{1+\sin\theta} + \frac{1}{1-\sin\theta}$ is

(A) $2\cos^2\theta$

(B) $2 \sec^2 \theta$

(C) $\tan^2 \theta$

(D) $2 \csc^2 \theta$

52. The value of $\tan^2 30^\circ + \sin^2 45^\circ + \cos^2 90^\circ + \cos^2 60^\circ$ is

(A) $\frac{4}{3}$

(B) $\frac{13}{12}$

(C) $\frac{13}{24}$

(D) $\frac{25}{12}$

53. The simplification of $\frac{\sin{(180^{\circ}-A)}\cos{(360^{\circ}-A)}}{\tan{(90^{\circ}+A)}\sin{(-A)}}$ is

(A) sin A

(B) cosec A

(C) - sin A

(D) - cosec A

54. If $\cos A = \frac{-3}{5}$ where $90^{\circ} < A < 180^{\circ}$, then the value of $\cot A$ is

(A) $\frac{3}{4}$

(B) $\frac{4}{3}$

(C) $\frac{-3}{4}$

(D) $\frac{-4}{3}$

55. The value of cos 105° is

$$(A) \quad \frac{\sqrt{3}-1}{2\sqrt{2}}$$

$$(B) \quad \frac{\sqrt{3} + 1}{2\sqrt{2}}$$

(C)
$$\frac{2\sqrt{2}}{1-\sqrt{3}}$$

(D)
$$\frac{1-\sqrt{3}}{2\sqrt{2}}$$

56. If $\tan \frac{A}{2} = \frac{1-\cos A}{\sin A}$, then the value of $\tan 22 \frac{1^{\circ}}{2}$ is

(A)
$$\sqrt{2} + 1$$

(B)
$$1 - \sqrt{2}$$

(C)
$$\sqrt{2} - 1$$

(D)
$$-1-\sqrt{2}$$

57. The value of $\cos 5x \cdot \cos 3x$ is

(A)
$$\cos 8x + \cos 2x$$

(B)
$$\frac{1}{2}(\cos 8x + \cos 2x)$$

(C)
$$\frac{1}{2} \left(\sin 8x + \sin 2x \right)$$

(D)
$$\frac{1}{2} (\cos 8x - \cos 2x)$$

58. The simplified value of $\tan^{-1}\left(\frac{1}{2}\right) + \tan^{-1}\left(\frac{1}{3}\right)$ is

(A)
$$\frac{\pi}{4}$$

(B)
$$\frac{\pi}{3}$$

(D)
$$\tan^{-1}\left(\frac{1}{7}\right)$$

59. Distance of a point P(-2, 5) from the origin is

(A) $\sqrt{29}$

(B) $\sqrt{21}$

(C) $\sqrt{3}$

(D) 29

60. The co-ordinates of the point which divides the line joining the points A (8, 3) and B(-5, 6) in the ratio of 2:3 externally is

(A) (-34, -3)

(B) (34, 3)

 $(C) \quad \left(\frac{14}{5}, \frac{21}{5}\right)$

(D) (34, -3)

61. The area of triangle with the vertices (5, 3), (4, 6) and (5, 8) is

(A) $\frac{15}{2}$ sq. units

(B) 15 sq. units

(C) $\frac{5}{2}$ sq. units

(D) $\frac{45}{2}$ sq. units

62. The slope of the line making an angle 150° with the x-axis is

(A) $\frac{-1}{\sqrt{3}}$

(B) $\frac{1}{\sqrt{3}}$

(C) $\sqrt{3}$

(D) $-\sqrt{3}$

63. The two point form of a straight line is

- (A) $y y_1 = m(x x_1)$
- (B) $\frac{y-y_1}{x-x_1} = \frac{y_2-y_1}{x_2-x_1}$

(C) $\frac{y}{x} = \frac{y_2 - y_1}{x_2 - x_1}$

(D) $\frac{y-y_2}{x-x_2} = \frac{y_2-y_1}{x_2-x_1}$

64. The equation of straight line perpendicular to 2x + 5y - 8 = 0 and passing through (-1, 2) is

(A) 2x + 5y + 9 = 0

(B) 5x - 2y + 1 = 0

(C) 5x - 2y + 9 = 0

(D) 5x + 2y - 9 = 0

65. The value of $\lim_{x \to 3} \frac{2x^2 - 7x + 3}{2x - 6}$ is

(A) 3

(B) $\frac{2}{5}$

(C) $\frac{5}{2}$

(D) 5

- 66. The value of $\lim_{x\to 0} \frac{\sqrt{1-\cos x}}{x}$ is
 - (A) $\frac{1}{\sqrt{2}}$

(B) $\sqrt{2}$

(C) $\frac{1}{2}$

- **(D)** 1
- 67. If $y = e^x (\cos x \sin x)$, then $\frac{dy}{dx}$ is
 - (A) $2e^x \cos x$

(B) $-2e^x \cos x$

(C) $2e^x \sin x$

- (D) $-2e^x \sin x$
- 68. If $x + y = \log x + \log y$, then $\frac{dy}{dx}$ at x = -1 and y = 2 is
 - (A) $-\frac{1}{4}$

(B) -4

(C) 4

- (D) $\frac{1}{2}$
- 69. If $x = a \cos^2 \theta$ and $y = b \sin^2 \theta$, then $\frac{dy}{dx}$ is
 - (A) $\frac{-b}{a}$

(B) $\frac{b}{a}$

(C) $\frac{a}{b}$

- (D) $\frac{-a}{b}$
- 70. The second derivative of $y = \log \left(\frac{1}{x}\right)$ is
 - (A) x

(B) 1

(C) $\frac{1}{x^2}$

A-1

(D) $\frac{-1}{x^2}$

71. The equation of normal to the curve $y = (2x + 1)^2$ at (-2, 0) is

(A)
$$x - 16y + 2 = 0$$

(B)
$$x - 12y + 2 = 0$$

(C)
$$x + 16y + 2 = 0$$

(D)
$$x + 12y + 2 = 0$$

72. The maximum value of the function $y = 2x^3 + 3x^2 - 36x$ is

$$(A) = 44$$

(B)
$$-30$$

(D)
$$-81$$

73. The value of $\int \sin 3x \cos 2x \, dx$ is

(A)
$$\frac{-1}{2} \left[\frac{\cos 5x}{5} + \cos x \right] + C$$

(B)
$$\frac{1}{2} \left[\frac{-\cos 5x}{5} + \cos x \right] + C$$

(C)
$$\frac{1}{2} \left[\frac{\cos 5x}{5} + \cos x \right] + C$$

(D)
$$\frac{-1}{2} [\cos 5x + \cos x] + C$$

74. The value of $\int x^2 \sin(2x^3) dx$ is

$$(A) \quad \frac{-\cos(2x^3)}{6} + C$$

$$(B) \quad \frac{-\cos(2x^3)}{3} + C$$

(C)
$$12x^3 \cos(2x^3) + C$$

(D)
$$\frac{\cos(2x^3)}{6} + C$$

75. $\int \log x \, dx$ is

(A)
$$\frac{1}{x} + C$$

(B)
$$\frac{1}{x} - x + C$$

(C)
$$x \log x + x + C$$

(D)
$$x \log x - x + C$$

Space For Rough Work

A-1

- 76. The value of $\int_{0}^{\pi/2} \sqrt{1+\sin 2x} \, dx$ is
 - (A) 0

(B) 1

(C) 2

(D) -2

- 77. $\int_{0}^{1} \frac{x}{1+x^4}$ is
 - (A) $\frac{\pi}{4}$

(B) $\frac{\pi}{8}$

(C) $\frac{-\pi}{8}$

- (D) $\frac{-\pi}{4}$
- 78. The area formed by the curve $y = (2x + 1)^3$ between the ordinates x = -1 and x = 1 is
 - (A) $\frac{41}{4}$ sq. units

(B) 2 sq. units

(C) 20 sq. units

- (D) 10 sq. units
- 79. The order and degree of differential equation $\left[1+\left(\frac{dy}{dx}\right)^4\right]^{2/3} = \frac{d^2y}{dx^2}$ is
 - (A) order 2 and degree 3
- (B) order 2 and degree 1
- (C) order 1 and degree 2
- (D) order 1 and degree 4
- 80. The solution of differential equation $\sec^2 x \tan y \, dx + \sec^2 y \tan x \, dy = 0$ is
 - (A) $\tan^2 x + \tan^2 y = C$

(B) $\tan x + \tan y = C$

(C) $\tan x \tan y = C$

(D) $x + y + \log(\sec x \sec y) = C$

PART-C

TEXTILE TECHNOLOGY

It consists of 81-180 Questions.

81.	The	density of cotton fiber is		
	(A)	1.54 gms/cc	(B)	0.4 gms/cc
	(C)	0.30 gms/cc	(D)	0.25 gms/cc
82.	Cell	ulose is present in fiber.		
	(A)	wool	(B)	silk
	(C)	glass	(D)	cotton
83.	Jute	belongs to		
	(A)	Protein fiber	(B)	Bast fiber
	(C)	Silk fiber	(D)	Man-made fiber
84.	Serie	culture belongs to		
	(A)	Cotton fiber	(B)	Wool fiber
	(C)	Silk fiber	(D)	Bast fiber
85.	The	density of silk in raw state is		
	(A)	1.33 gms/cc	(B)	0.54 gms/cc
	(C)	0.52 gms/cc	(D)	0.20 gms/cc
86.	Con	volutions are present in fi	ber.	
	(A)	Wool	(B)	Silk
	(C)	Cotton	(D)	None of these

87.	Single	unit of polymer is called				
		Polymer		(B)	Monomer	
	(C)	Polymerisation		(D)	None of these	
00	Damet	tion of chemical retting for	Jute fib	er is		
88.				(B)	10 to 20 Days	
	` /	7 to 15 Days 6 to 8 hours		(D)	20 to 30 Days	
	(0)					
89.	Dens	ity of Nylon fiber is				
	(A)	0.4 gms/cc		(B)	0.52 gms/cc	
	(C)	1.14 gms/cc		(D)	0.60 gms/cc	
90.	Capr	rolactum is generally used	to prepa			
	(A)	Nylon 6		(B)	Silk	
	(C)	Cotton		(D)	Wool	
0.4	D	-its of Nomey fiber is				
91.		sity of Nomex fiber is		(B)	1.45 gms/cc	
	(A) (C)	0.45 gms/cc 5.4 gms/cc		(D)		
	(C)	J.4 giils/00				
92	. Me	lting temperature of Kevla	r fiber is	3		
	(A)			(B)	20°C	
	(C)	_		(D)) 500°C	
93	. No	rmally for Indian cotton		/ Will h	M de cin in usad	
	(A)			(B)		
	(C)) Knife roller gin used		(D)) Any gin can be used	

94.	The	strength of air jet spun yarn is		
	(A)	Higher than ring spun yarns	(B)	Lesser than ring spun yarn
	(C)	Equal to ring spun yarn	(D)	Lesser than rotor yarn
95.	The	condensing zone in card is		
	(A)	Feed roller & licker-in	(B)	Licker-in & Cylinder
	(C)	Cylinder & flats	(D)	Cylinder & doffer
96.	Back	Doubling is feature of		
	(A)	Draw frame	(B)	Ring frame
	(C)	Air Jet Spinning	(D)	Rotor Spinning
97.	Card	introduces		
	(A)	Long term variation	(B)	Medium term variation
	(C)	Short term variation	(D)	All the above
98.	The	speed of the front roller is 300 rpm	and b	ack roller speed is 50 rpm then the draft is
	(A)	6	(B)	0.16
	(C)	8	(D)	5.3
99.	The	action between cylinder to liker-in	is	
	(A)	Point to point	(B)	Point to back
	(C)	Back to point	(D)	Both point to back & back to point
100.	Um	brella creels are used in		
	(A)	Card	(B)	Draw frame
	(C)	Roving frame	(D)	Comber

A-1

101.	Diffe	rential motion is used in		
	(A)	Ring frame	` '	Speed frame
	(C)	Comber	(D)	Modern draw frame
102.	Twis	t at speed frame is useful		
	(A)	To increase strength of yarn		
	(B)	To withstand the stress & strain du	ring w	inding
	(C)	To reduce breakage at speed frame		
	(D)	To impart uniformity to roving		
103	Com	pared to the laps, the nep level in th	e card	sliver should be
105	(A)	Less	(B)	More
	(C)	Same	(D)	Zero
104	. DRI	EF-I & DREF-II are associated with		
	(A)	Air jet spinning system	(B)	Friction spinning system
	(C)	Rotor spinning system	(D)	Ring spinning system
105	. The	ratio of fan speed to the beater for o	cotton	processing is
100		0.5 – 1.0		1.5 - 2.0
		1.2 - 1.3	(D)	1.8 - 2.0
10/	3371.	ich of the following is modern beate	er ?	
100			/ >	Step cleaner
	(A) (C)	3 – Bladed beater 2 – Bladed beater	(D)	Vertical opener
	` '			
10′	7. The	e minimum number of heald shafts r	equire	d for tappet shedding is
	(A)	3	(B)	4
	(C)	2	(D)	1
-		Space I	or Ro	ugh Work

108.	Bum	ping condition is		
	(A)	Fabric is slack at Beat up		
	(B)	Fabric is tight at Beating		
	(C)	High strain on warp during sheddi	ng	
	(D)	High picking force		
109.	Bang	g-off is associated with		
	(A)	Take up motion	(B)	Let-off motion
	(C)	Fast reed motion	(D)	Side weft fork motion
110	Υ	1 1 6 . 4 1	20-	
110.		se reed and fast reed mechanism is f		Calvadaa maahaniam
	(A)	Warp protection	(B)	Selvedge mechanism
	(C)	West protection	(D)	None of these
111.	Crim	np of yarn in fabric is		
	(A)	L/P - 1	(B)	L-P/1
	(C)	P - 1/P	(D)	100L - P/P
112.	Epic	cyclic gear train is found in		
	(A)	Sulzer picking	(B)	Rapier let off
	(C)	Seven wheel take up	(D)	Rapier insertion
113.	Sing	gle lift, Single Cylinder jacquard pro	duce	shed.
	_	Open		Bottom closed
	(C)	Semi Open	(D)	None of these
114.	Sley	Eccentricity ratio is		
	(A)	r/l	(B)	$2r \times 1$
	(C)	rl	(D)	rl/2

115.	Practic	cal value of dividend in seven wh	eel tak	e up is
	(A)		(B)	2
	(C)	0.5	(D)	3
	` /			
116.	Sizing	g imparts		
	(A)	Strength	(B)	Hairiness
	(C)	Rigidity	(D)	Luster
117.	Hard	ness of a cone can be changed by	changi	ng the
117	(A)	Traverse	(B)	Wind per double traverse
	(C)	Winding angle	(D)	Conicity of the package
118	. The	speed of loom in shuttle less loon	n is exp	pressed in terms of
	(A)	WIR	(B)	mtr/min
	(C)	1 & 2	(D)	None
119). Perio	odic thick place introduces		
	(A)	Gout	(B)	Lashing
	(C)	Phurkies	(D)	Weft bar
10	0 D	ultant count of 2 yarns in indirect	system	
12		$R_1 \times R_2 / R_1 + R_2$		$R_1 + R_2 / R_1 + R_2$
	-	$R = 1/R_1 + 1/R_2$	(D)	$R = R_1 + R_2$
4.5	.4 77	.l of water is due to presence	of carl	oonate, bicarbonate, chloride, sulphate of
12			(B	
	(A)	Calcium & Magnesium Silver	(D	- Ad

(C) Silver

A-1

122.	The dry process in preparatory process of fabric is					
	(A)	Scouring		(B)	Bleaching	
	(C)	Singeing		(D)	Dyeing	
123.	In de	sizing the material rem	noved is			
	(A)	Size		(B)	Colour	
	(C)	Fiber		(D)	None of these	
	ent.	4 1 1 011				
124.		chemical name of blea			G 11 - 1 1.1 - 24 -	
	(A)	Calcium hypochlorite	;	(B)	Sodium hypochlorite	
	(C)	Sodium chloride		(D)	Magnesium chloride	
125	More	cerisation is carried on				
1.43.				(B)	Polyester fabric	
	(A)	Cotton fabric		` '	Silk fabric	
	(C)	Nylon fabric		(D)	Slik labile	
126.	Degr	umming process is rela	ted to			
	(A)	Silk		(B)	Wool	
	(C)	Nylon		(D)	Acrylic	
127.	The	hydrogen peroxide ble	aching is car	rried at		
	(A)	80 - 90°C		(B)	10°C	
	(C)	150°C		(D)	300°C	
128.	Salt	colours are				
	(A)	Direct Dyes		(B)	Basic dyes	
	(C)	Disperse Dyes		(D)	None of these	
	(C)	Disperse Dyes		(D)	None of these	

129.	Ice co	lours are			
	(A)	Basic Dyes	(B)	Acid Dyes	
	(C)	Azoic Dyes	(D)	None of these	
130.	Sulph	ur dyes are similar to			
	(A)	Vat dyes	(B)	Reactive dyes	
	(C)	Disperse dyes	(D)	None of these	
131.	Curir	ng temperature is			
	(A)	140-160°C	(B)	10°C	
	(C)	20°C	(D)	30°C	
132.	. Raisi	ing finish on fabric is			
	(A)	Mechanical	(B)	Chemical	
	(C)	Electrical	(D)	None of these	
133	. Crab	bbing process is related to	(D)	0.44.	
	(A)	Silk	(B)	Cotton	
	(C)	Wool	(D)	None of these	
134	I. Scro	oop finish is given to			
	(A)	Silk fabric	(B)	Cotton fabric	
	(C)	Wool fabric	(D)	Nylon fabric	
ا عد مر		1 d. Januari dita da magamari	l by		
13:		relative humidity is measured		Regain tester	
	(A)		(B)		
	(C)	Moisture content analyser	(D)	Pressure guage	

Space For Rough Work

136.	. The dry mass of fiber is 50 gms & water content of fiber is 5 gms. Then moisture regain of fiber is				
	(A)	0.1	(B)	10	
	(C)	0.9	(D)	9	
137.	137. The rate of evaporation is uniform overtime, then the specimen takes 5 hours to evaposome of moisture. How many hours are required to evaporate 80% of moisture?				
	(A)	10 hours	(B)	8 hours	
	(C)	12 hours	(D)	20 hours	
138.	Whic	ch of the following is finer count			
	(A)	20 Ne	(B)	50 Tex	
	(C)	60 Ne	(D)	80 Tex	
139.	The	analysis of comb sorter diagram yie	elds		
	(A)	Span length	(B)	Trash percentage	
	(C)	Uniformity ratio	(D)	None of these	
140.	High	volume instrument measures			
	(A)	Fiber strength	(B)	Fiber length	
	(C)	Fiber fineness	(D)	All of these	
141.	CSP	of combed yarn is approximately			
	(A)	1000	(B)	1500	
	(C)	2800	(D)	2200	
142.	Whi	ch of the following is universal yar	n num	bering system ?	
	(A)	English count	(B)	Metric count	
	(C)	Tex	(D)	Denier	

143.	Indir	ect yarn number is		
	(A)	Cotton count	(B)	Metric count
	(C)	Tex	(D)	Denier
144.	If are	ea of draped specimen and the a	rea of bigg	ger disc are equal then, drape coefficient is
	(A)	1	(B)	0.5
	(C)	0	(D)	0.75
145.	Whi	ch of the following is relative n	neasure?	
	(A)	Standard deviation	(B)	Coefficient of variation %
	(C)	Mean	(D)	Variance
146.	. The	time to spray water in spray tes	ster is	
	(A)	10 sec	(B)	20 sec
	(C)	30 sec	(D)	50 sec
147	. If th	ne specimen of cotton fiber is st	retched wi	thin yield point, then the recovery is
	(A)	50%	(B)	75%
	(C)	25%	(D)	100%
148	. Inst	ron works on the principle		The state of the s
	(A)	Pendulum lever	(B)	Balance
	(C)	Strain guage	(D)	Inclined plane
140) The	e smallest possible repeat for tw	vill weave	is
17/	(A)		(B)	3 × 3
	(C)		,	5 × 5
				u.

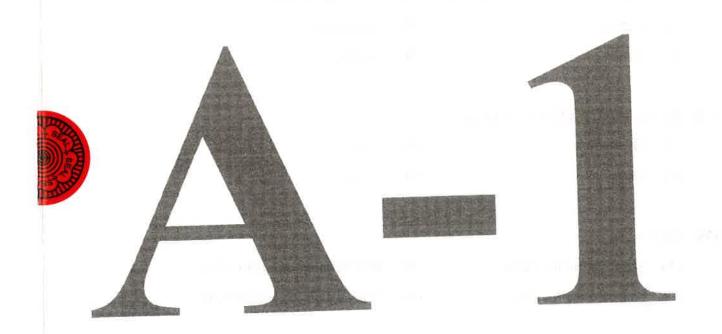
150.	Which weave has the simplest possible pattern of interlacing?				
	(A)	Satin	(B)	Twill	
	(C)	Plain	(D)	Huck a back	
151.	Poss	ible move numbers for 8 end sateen	are		
	(A)	7 & 8	(B)	1 & 7	
	(C)	3 & 5	(D)	4 & 6	
152.	Cros	sing end and standard ends are asso	ciated	with	
	(A)	Huck a back weave	(B)	Guaze & leno weave	
	(C)	Double cloth	(D)	Backed cloth	
153.	Hucl	c a back weave is having			
	(A)	Smooth surface	(B)	Rough surface	
	(C)	Very smooth surface	(D)	None of these	
154.	The	main advantage of the extra warp n	ethod	is	
10 11	(A)	Prominance of fiber	(B)	Prominance of yarns	
	(C)	Productivity	(D)	None of these	
155.	In w	arp backed cloth series o	f warp	and series of wefts are required.	
	(A)	1 & 1	(B)	2 & 1	
	(C)	1 & 2	(D)	1 & 4	
156.		elf stitched double cloths	series o	of warp and series of weft threads	
	(A)	2 & 2	(B)	1 & 2	
	(C)	2 & 1	(D)	2 & 3	

157.	Velve	eteen is a		
	(A)	West pile structure	(B)	Warp pile structure
	(C)	Double cloth	(D)	Backed cloth
158.	Shak	er motion is used in the production	n of	
	(A)	Brocade	(B)	Demask
	(C)	Pile	(D)	Leno
159	. Ligh	t is an		
	(A)	Electromagnetic wave motion	(B)	Electronic wave motion
	(C)	Sound energy	(D)	None of these
160	. Mat	t weave is derivative of		
	(A)	Plain	(B)	Twill
	(C)	Satin	(D)	Mockleno
161	l. Kni	tting is the most common method	of	
	(A)	Intralooping	(B)	Inter weaving
	(C)	Interlooping	(D)	Extra looping
16	2. Kn	itting requires a relatively		
	(A)	Coarse yarn	(B)	Smooth yarn
	(C)	High twist yarn	(D)	None of these

163.	A co	urse is	row of loops.		
	(A)	Vertical		(B)	Horizontal
	(C)	Diagonal		(D)	Multi directional
164.		is a horizon	ntal row of cleared	loops	produced by one bed of adjacent needles.
	(A)	Pattern Column		(B)	Pattern making
	(C)	Pattern grading		(D)	Pattern row
165.	The	total number of n	needle loops in a sq	uare a	area measurement is known as
	(A)	Course density		(B)	Wale density
	(C)	Stitch density		(D)	Fiber density
166.	The	piece of yarn wh	ich joins one weft	knitte	d loop to the next is called
	(A)	Sinker loop		(B)	Bearded loop
	(C)	Overlap		(D)	Underlap
167.	Whi	ch of the following	ng knitting is most	widel	y used ?
	(A)	Warp knitting		(B)	Weft knitting
	(C)	Fiber knitting		(D)	None of these
168.	In w	eft knitting mach	nine the yarns are f	ed thro	ough
	(A)	Warp beam		(B)	Pirn
	(C)	Cones		(D)	Sectional warp beam

169.	Whic	h of the following knif	e is used to cut tig	ht curves?		
	(A)	Round knife	(B)	Straight knife		
	(C)	Drill knife	(D)	Notchers		
170.	In bri	itish standard class-I re	present			
	(A)	Lapped seam	(B)	Bound seam		
	(C)	Super imposed seam	(D)	Decorative seam		
171.	Whi	ch of the following made	chine feed mechan	ism is the simplest and o	commonest?	
	(A)	Drop feed	(B)	Differential bottom fee		
	(C)	Adjustable top feed	(D)	Unison feed		
172	. Kim	ono is associated with	which of the follo	wing?		
	(A)	Collar	(B)	Sleeve		
	(C)	Neck	(D)	Yoke		
173	3. In c	are labelling bleaching	instructions are gi	iven by		
	(A)	Square	(B)	Circle		
	(C)	Triangle	(D)	Semi circle		
174	4. Wh	nich of the following me	easurements is use	ed in custom tailoring?		
	(A)	Direct system	(B)	Chest system		
	(C)	Industrial form	(D)	Drafting system		

175.	Fusi	Fusing of two sorts of interlinings to the outer fabric in one operation is in				
	(A)	Reverse fusing	(B)	Sandwich fusing		
	(C)	Double fusing	(D)	Single fusing		
176.	Whi	ch of the following pattern is used	during	cutting?		
	(A)	Working pattern	(B)	Block pattern		
	(C)	Draped pattern	(D)	Master pattern		
4	_					
177.		I man fold is associated with which	of the	following process ?		
	(A)	Cutting	(B)	Spreading		
	(C)	Sewing	(D)	Packing		
178.	An E	English equivalent of 'Seiketsu' is				
	(A)	Standardise	(B)	Shine		
	(C)	Sort	(D)	Sustain		
179.	SMV	' is				
	(A)	Standard minute value	(B)	Standard measurement value		
	(C)	Standard multi value	(D)	Standard movement velocity		
180.	Phull	cari is associated with				
	(A)	Sewing	(D)	G.,		
			(B)	Spreading		
	(C)	Embroidery	(D)	Washing		
		-	-			



32

A-1