CODE: AE-TX

M.Tech. Common Entrance Test, PGCET – 2010

Textile Technology

Time: 2 Hours

Max. Marks: 100

Read the following instructions before answering the test

- Write / darken the particulars of your identity, Test Seat Number and i) affix your signature on the OMR Response Sheet before the start of the test.
- All Questions have multiple choices of answers, of which only one is ii) correct.
- Mark the correct answer by completely darkening only one oval against iii) the Question number using Black Ink Ball Point pen only.
- There will be no negative evaluation with regard to wrong answers. iv) Marks will not be awarded if multiple answers are given.
- v) Do not make any stray mark on the OMR Response sheet. For rough work, use blank page on the question paper.
- Taking the question paper out of the test hall is permitted only after the vi) full duration of the test.
- Use of only non-programmable calculator is permitted. vii)
- START ANSWERING ONLY AT THE SPECIFIED TIME WHEN viii) THE INVIGILATOR GIVES INSTRUCTIONS.

MARKS DISTRIBUTION

PART - I PART - II

50 Questions: $50 \times 1 = 50 \text{ Marks}$

25 Questions:

 $25 \times 2 = 50 \text{ Marks}$

Total = 100 Marks

PART - 'I'

Each Question carries one mark

1. Th	e difference between th	e high	est and the low	est value is known as	
	(a) Range	(b) §	S.D.	(c) C.V.	(d) Mean
	sample in which all the presented is known as _			on have an equal chan	ce of being
	(a) Biased sample			(b) Numerical Samp	
	(c)Random Sample			(d) Length biased sa	ample
3. Hy	grometers are used for	determ	nining	·	
	(a) Moisture regain			(b) Moisture Conter	nt
	(c) R.H.			(d) Temperature	
4. W.	I.R.A. fineness meter w	orks o	n	·	
	(a) Gravimetric Princ	iple		(b) Magnetic Princip	ple
	(c) Electro-magnetic	Princip	ole	(d) Air-flow Princip	le
5. Imi	naturity of cotton affect	ts	·		
	(a) Shade after dyeing	5	(b) Strength	(c) Elongation	(d) Hairiness
6. Shi	rley analyser is used for	meas	urement of	•	
	(a) Neps		(b) Crimp	(c) Trash Content	(d) Hairiness
7. Bee	esley's yarn balance is u	ised fo	r determining _	·	
	(a) Twist		(b) Strength	(c) Elongation	(d) Count
8. The	measure of the spiral t	urns g	iven to a yarn in	order to hold the fibi	es together is
kno	own as				
	(a) Slubs		(b) Twist	(c) Neps	(d) Tex

9. The	e measure of stiffness	associated with	handle	is known as	·	
	(a) Bending Length			(b) Bending Modulus		
	(c) Flexural Rigidit	y , , , , , , , , , , , , , , , , , , ,		(d) Toughness		
10. A	brasion is just one asp	pect of				
	(a)Pilling	(b) Wear		(c) Pilling and W	ear (d) Creasing	
11. O	ne of the objects of do	oubling is				
	(a) To reduce the irr	egularity		(b) To reduce nep	os.	
	(c) To increase crea	se recovery		(d) To reduce slul	bs	
	ne process of removin		res proj	ecting from the sur	face of the cloth	
	(a) Sizing	(b) Desizing		(c) Singeing	(d) Waxing	
13. H	ydrogen peroxide blea	aching is carried	out at a	temperature of	·	
	(a) 80-85 degree cer	ntigrade		(b) 140 degree cer	ntigrade	
	(c) 200 degree centi	grade		(d) 180 degree cer	ntigrade	
14. HI	PHT method is used for	or dyeing		•		
	(a) Cotton	(b) Wool		(c) Polyester	(d) Silk	
15. Fo	r dyeing of delicate fa	abrics		machine is used.		
	(a) Jigger			(b) Winch		
	(c) Calendering			(d) Star Frame Dy	eing Machine	
16. Va	t dyes are characteriz	ed by	-			
	(a) Fastness to light		(b) Fas	stness to rubbing		
	(c) Fastness to persp	iration	(d) Fas	stness to light, rubb	ing and perspiration	
17. Th	e fibre length of fine	wools ranges fro	m	·		
	(a) 10-20 cm	(b) 20-25 cm		(c) 3 8-10 cm	(d) 2-5 cm	

18. Muga silk is found i	n				
(a) Tamil Nadu	(b) Karnataka	(c) Orissa	(d) Assam		
19. Acid dyes are used f	for dyeing of	·			
(a) Cotton	(b) Polyester	(c) Nylon	(d) Silk		
20. Acetate Rayon is ha	ving a tenacity of				
(a) 1.4 gm / deni	er in dry state	(b) 4 gm / denier	in dry state		
(c) 8 gm / denier	in dry state	(d) 10 gm / denier	in dry state		
21. Polyester is heat set	at a temperature of	·			
(a) 210 degree ce	elsius	(b) 400 degree cel	(b) 400 degree celsius		
(c) 300 degree Co	elsius	(d) 350 degree Ce	lsius		
22. The purpose of carbo	onising is				
(a) Chemical des(c) Enhancement	truction of Vegetable m of luster		ement of Strength		
23. Felting shrinkage is r	noticed in				
(a) Cotton	(b) Silk	(c) Wool	(d) Polyester		
24. The melting point of	polyester is				
(a) 100 degree Ce	elsius	(b) 250 degree cels	sius		
(c) 150 degree Ce	elsius	(d) 400 degree cels	sius		
25. The formation of sma		surface of fabric is kn	own		
(a) Pilling	(b) Creasing	(c) Pressing	(d) Calendering		
26. The reciprocal of the	modulus has been termo	ed as	e e		
(a) Yield Stress	(b) Compliance	(c) Yield Strain	(d) Toughness		

27. At ł	nigher temperature	is low.		
	(a) Air permeability		(b) Drapeability	
				20
	(c) Tenacity and stiffr	iess	(d) Abrasion resistance	<i>Je</i>
28. Plas	sticity is opposite to _	·		
	(a) Tensile Stress	(b) Tensile Strain	(c) Toughness	(d) Elasticity
29. Wo	ol fibres show	recovery fr	om an extension of 35	%.
	(a) 20%	(b) 10%	(c) 60%	(d) 20%
30. The	bending and twisting	of fibre influences	of fabr	ics.
	(a) Abrasion resistance	ee	(b) Drape and handle	
	(c) Warmth		(d) Elasticity	
31. Piar	no feed regulating mo	tion is used in	·	
	(a) Scutcher	(b) Card	(c) Draw frame	(d) Ring frame
32. Cag	ges are considered as _	•		
	(a) Minor cleaning po	oints	(b) Major cleaning po	oints
	(c) Beaters		(d) Neps removers	
		method	is used for weighting of	of top drafting
rolle				
	(a) Self weighting		(b) Magnetic	
	(c) Pneumatic		(d) Electro-magnetic	
34. Con	ne drums are used in _			
,	(a) Draw frames	(b) Doublers	(c) Ring frames	(d) Speed frames
35. Plug	gtype spindles are use	d in		
,	(a) Ring frame	(b) Speed frame	(c) O-E spinning fram	ne (d) Comber

36. The objective of dou	oling is to increase	*	
(a) Strength and a	abrasion resistance	(b) Elastic reco	very
(c) Air porosity		(d) Water proof	ness
37. The objective of texts	urisation is		
(a) To increase ai	r permeability		
(b) To increase w	ater proofness		
(c) To impart bull	k or stretch or both to	the filaments	
(d) To increase dy	ye uptake		
38. Modern combers ope	rate at a speed of	·	
(a) 50 nips per mi	nute	(b) 100 nips per	minute
(c) 20 nips per mi	(c) 20 nips per minute		minute
39. No. of doubling on m	odern draw frame is _	·	
(a) 20	(b) 8	(c) 4	(d) 15
40. Antiwedge rings and	elliptical travelers are	used in	•
(a) Ring frames		(b) Combers	
(c) Speed frames		(d) Two for one	twister
•			
41. To separate the warp t	threads into two layers	is known as	
(a) Shedding	(b) Take-up	(c) Let-off	(d) Beat-up
42. To push the weft threa	nd that has been inserte	ed across the warp end	ds, upto the cloth
fell is known as	•		
(a) Warp stop	(b) Weft stop	(c) Beat-up	(d) Let-off

43. Unconventional wea	aving machines are	also kno	wn as	•	
(a) Shuttleless lo	ooms		(b) Warp knittin	g machines	
(c) West knitting	g machines		(d) Electronic do	obby	
44. Weft bars occur due	to	<u></u> .			
(a) Warp thread			(b) Combination	n of warp and weft	
(c) High tension			(d) Change in th	e west package	
45. The disadvantage of	f the shuttle loom is	S			
(a) High cost					
(b) Skilled opera	atives are required				
(c) Small weft p	ackage size and hig	gh noise			
(d) Multiple col	ours cannot be used	I			
46. The elongation of the	ne cocoon filament	is	*		
(a) 10%	(b) 5%		(c) 18-23%	(d) 2%	
47. The compactness of the cocoon shell depends on					
(a) Silkworm rad	ce		(b) Filament stre	ength ·	
(c) Filament elo	ngation		(d) Filament fine	eness	
48. The objective of coo	coon stifling is		*		
(a) To increase t	ilament strength		b) To increase fi	ilament elongation	
(c) To increase f	ilament luster		(d) To kill the p	upae	
49. The interlock structu	are becomes costlie	r per line	ear metre due to _		
(a) Thick places	of yarn	(b) Thi	in places of yarn		
(c) Slubs of yarr	l	(d) Inc	rease in thickness	s and less production	
50. In circular knit hosid	ery gauge is the nur	nber of_			
(a) Needles per i	nch	(b) Ne	edles per 10 cm		
(c) Needles per 2	20 cm		edles per 30 cm		

PART - 'II' Each Question carries two marks

51. The moisture regain	of cotton fibre is	*	
(a) 14%	(b) 4%	(c) 8.5%	(d) 5%
52. If the mean is 19.55 a	and the mean range is 7	7.2, then percentage m	ean Range
is			
(a) 60 Percent	(b) 80 Percent	(c) 20 Percent	(d) 36.8 Percent
53. 32s cotton count is eq	ual to		
(a) 20 denier	(b) 166 denier	(c) 80 denier	(d) 100 denier
54. Heavy weight fabric i	s having the weight of		
(a) 4 ozs per squar	re yard	(b) 6 ozs per squa	are yard
(c) 8 ozs per squar	re yard	(d) Above 8 ozs per square yard	
55. The air permeability of	of a fabric is the volum	e of air measured in c	ubic centimentres
passed per second thro			
	fabric at a pressure of		
	fabric at a pressure of		
	fabric at a pressure of		
(d) 1 sq.cm. of the	fabric at a pressure of	2 cm of water	
56. Uster Evenness tester	works on	·	
(a) Capacitance Pr	inciple	(b) Magnetic Prin	nciple
(c) Electro-magnet	tic Principle	(d) Air flow Princ	ciple
57. In gas singeing machi	ne the fabric moves at	a speed of	
(a) 200 metres per	minute	(b) 400 metres pe	r minute
(c) 600 metres per		(d) 90 metres per	minute
8. In yarn mercerizing th	e concentration of alka	ıli used is	·
(b) 25-30 %	(b) 10 %	(c) 5 %	(d) 10 %

60. Weighting of silk improves (a) Strength (b) Handle (c) Elongation (d) Pilling resistance
(a) Strength (b) Handle (c) Elongation (d) Pilling resistance
61. To produce prints in bulk quantity printing is used.
(a) Block (b) Screen (c) Roller (d) Transfer
62. The output of fabric in continuous calendar Transfer printing machine is
(a) 15 m per minute (b) 50 m per minute
(c) 100 m per minute (d) 200 m per minute
63 are used for water repellent finish on cotton fabrics.
(a) Sulphuric acid (b) Hydrochloric acid
(c) Oils and waxes (d) Turkey red oil
64. If the surface of cloth is raised, cut even and smoothed then the process is known as (a) Calendering (b) Heat setting (c) Shearing (d) Napping
65. Weight of Indian cotton bale is
(a) 500 kg (b) 180 kg (c) 800 kg (d) 1000 kg
66. A pH of favour the growth of mildew.
(a) 10 (b) 2 (c) 4-7.5 (d) 12
67. Fibre fineness influences of a fabric.
(a) Draping quality (b) Elongation
(c) Tearing strength (d) Water proofing

59. Wool is characterized by _____.

68. In the causticaire test to	is used.			
(a) 10 % sulphuric a (c) 18 % caustic sod		(b) 20 % sulphuric (d) 5 % caustic sode		
69. The heat evolved when material at a given moi			mass of	
(a) Work factor(c) Work of rupture		(b) Yield Stress(d) Differential hear	t of sorption	
70. The energy needed to be	eak the fibre is known	as		
(a) Toughness	(b) Elastic recovery	(c) Tensile Stress	(d) Tensile Strain	
71. In the ideal state, the wo	ork factor will be	· ·		
(a) 1	(b) 0.5	(c) 4	(d) 6	
72. The needle may become	red-hot in the stitching	g of fabrics due to	·	
, ,	(a) High strength of fabrics(c) Light weight of fabrics		of fabrics	
73. Autolevellers are used in	1			
(a) Draw frame	(b) Scutcher	(c) Step cleaner	(d) Ring frame	
74. Main carding action take	es place between	·		
(a) Flats and cylinder	(a) Flats and cylinder		(b) Licker-in and cylinder	
(c) Doffer and cylind	ler	(d) Feed roller and l	icker-in	
75. Knitted fabrics are chara	cterized by	·		
(a) High Strength		(b) High elasticity		
(c) High toughness		(d) High luster		