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Question Booklet Alpha Code



Question Booklet Sl. No.

Α

Total Number of Questions: 100 Time: 90 Minutes

Maximum Marks: 100

INSTRUCTIONS TO CANDIDATES

- 1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D**.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- 4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
- 6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

A -2-

1.	The traditional process of extraction of co A) Bleaching C) Beating	oir fibre from coconut husk B) Soaking D) Retting
2.	The first Coir Factory was established in	5) 41
	A) Kozhikode	B) Alleppy
	C) Tirur	D) Kannur
3.	What is the advantage of using a hard to curled coir rope?	wist during the manufacturing process of
	A) Creates a smoother surface	B) Increases the rope diameter
	C) Improves the coir fibre's curl retention	n D) Makes the ropes more flexible
4.	Nanji is a process.	
	A) Biological	B) Chemical
	C) Physical	D) None of the above
5.	Lac is	
	A) An aquatic flora	B) An animal dye
	C) An ancient fruit	D) A herbal dye
6.	When grading brown fibres, a higher num A) Lower fibre quality with shorter and of B) Finer and more valuable fibres C) Fibres with higher lignin content D) Ideal for applications requiring low m	coarser fibres
7.	What is the primary factor that influences	the abrasiveness of coir fibres ?
	A) The fibre length	B) The presence of natural oils
	C) The degree of curl in fibre	D) Fibre's moisture content
8.	What is the ideal "material to liquor ratio" the of coir fibres?	nat is to be obtained for the efficient dyeing
	A) 1:10	B) 1:20
	C) 1:15	D) 1:5

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9.	Length of coir yarn in meter	per	Kg is		
	A) Scorage			B)	Runnage
	C) Fineness			D)	Twist
10.	Match the following:				
	1. MFEM	a.	Combing		
	2. Anugraha loom	b.	Defibering	9	
	3. Willowing machine	c.	Coir Geot	exti	les
	4. Fibre drum	d.	Cleaning		
	A) $1 - b$, $2 - c$, $3 - d$, $4 - a$			B)	1 - a, $2 - b$, $3 - c$, $4 - d$
	C) $1 - d$, $2 - b$, $3 - a$, $4 - c$			D)	1 - c, $2 - a$, $3 - b$, $4 - d$
11.	The Botanical name of Cocc	nut	is		
	A) Cocos nucifera			B)	Cocos lucifera
	C) Cocos malifera			D)	Cocos mangnifera
12.	Which of these factors is not a for coir yarn?	ı mə	ajor conside	erati	ion when selecting a spinning method
	A) Desired yarn properties			B)	Type of coir fibre
	C) Production speed and e	ffici	ency	D)	Availability of skilled labour
13.	Tenacity is a measure of Ya	rn's			
	A) Thickness			B)	Colour consistency
	C) Breaking strength			D)	Moisture content
14.	During the drying process of scorch is most accurate?	coir	yarn, scor	chir	ng can occur. Which statement about
	A) A slight scorch can impr	ove	yarn strer	ngth	and durability
	B) Scorch is a desirable ae	sth	etic feature	e of	some coir yarns
	C) Scorch significantly wea	ker	ns the yarn	fibr	res and reduces quality
	D) Scorch primarily affects	col	our uniforn	nity	of yarn
15.	Founders of Coir Industry in	Indi	a		
	A) Henri Becquerel and En	rico	Fermi		
	B) James Darragh and Her	าry :	Smail		
	C) James Chadwick and M	ax I	Born		

D) Robert Boyle and Rosalind Franklin

16.	A) E	prous region of the coconut husk is kindocarp lesocarp	B)	n as Epicarp Exocarp	
17.		is the highest coconut producing Sta			
	,	ndhra Pradesh amil Nadu	,	Kerala Karnataka	
18.	A) SiB) SiC) Si	ath Assistant (DBH) is ubstance used to assist the transfer ubstance used for the preparation of ubstance used to remove excess dyoubstance used for the preparation of	aci e fro	d dyes om the fibres	ath to the fibre
19.	length A) Se	ocess of joining together hanks of yar is known as orting /arping	B)	f different lengths t Splicing Beaming	to get a continuous
20.		pe of basket matting in which two wa eft interlaces in pair is	rps	are raised and two	o lowered together
		aloon matting	B)	Panama matting	
	,	ot matting	,	Ribbed matting	
21.	Water	holding capacity of coir pith is		times of its we	ight.
	A) 1	−3 B) 9 − 10	C)	6 – 8	D) 3-5
22.	Calorif	ic value of coir pith is			
	A) 42	200 kcal per kg	B)	3975 kcal per kg	
	C) 4	125 kcal per kg	D)	3865 kcal per kg	
23.	A) H B) E: C) In	one of the following is not the properties igh moisture retention xcellent medium for plant growth approves physical and biological cond acreases frequency of irrigation		-	/lanure (C-POM) ?

24.	What is the percentage A) 28.5	ge of lignin content in B) 30		ed coir pith ? 26.40	D) 29
25.	Which compound pro as co-substances for valuable organic mar	lignin degradation in		•	•
	A) Cellulose	B) Lignin	C)	Hemi cellulose	D) Pectin
26.	What is the Indian Sp	pecification Code for C	Coir	Pith ?	
	A) IS 17739 : 2022		B)	IS 17734 : 2022	
	C) IS 15869 : 2020		D)	IS 15871 : 2009	
27.	For the selection of coir pith should be be		e cc	oco peat, the electr	rical conductivity of
	A) 1.5 ms/cm	B) 1 ms/cm	C)	0.5 ms/cm	D) 1.2 ms/cm
28.	Number of days requusing perforated PVC		hill	ocks of coir pith in	to organic manure
	A) 30		B)	28	
	C) 21		D)	20	
29.	Chemical cleaning of	fabric prior to dyeing	and	d printing is in the	general sense is
	A) Bleaching		B)	Softening	
	C) Washing		D)	Colouring	
30.	Which one of the follo	•	lead	ching agent and us	sed extensively for
	A) Sodium Silicate		B)	Hydrogen Peroxi	de
	C) Bleaching Powd	er	D)	Soda	
31.	The colour and their referred as	respective dyes from	plar	nt are oldest dyes	and generally
	A) Basic dyes	B) Natural dyes	C)	Direct dyes	D) Acid dyes
32.	Dyes obtained by hea calcium sulphide are	-	CO	mpounds with sulp	hur and sodium or
	A) Sulphur dyes	B) Azoic dyes	C)	Vat dyes	D) Natural dyes

33.	Which one of the following dyes are not commonly used in coir industry?						
	A) Basic dyes	B) Acid dyes	C) Vat dyes	D) Direct dyes			
34.	Where the percent exmaterial dyed in a partition This is known as	•	w, the amount of the cled to the dye bath and	, ,			
	A) Dye Bath Assist	ant	B) Shade of a dyeir	ng			
	C) Shade matching	}	D) Standing bath				
35.	Fastness grade of dy A) 1	ve from Turmeric is B) 2	C) 3	D) 4			
36.	B) Ratio of mass oC) Ratio of the weight	of the material to volu f the material to mass ght of the material to t	·				
37.	Prescribed limit of B0 A) 25	DD for effluents in we	t processing of coir is C) 29	D) 30			
38.	In stencil plate printir	ng, the selection of nu	mber of stencil plates	depends upon			
	A) Colour	B) Material	C) Pattern	D) Dyestuff			
39.	Which one of the follotextile materials to R	•	ard for determination o	of colour fastness of			
	A) IS: 765 – 1979		B) IS: 766 – 1988				
	C) IS: 686 – 1985		D) IS: 2454 – 1985				
40.	The dyes belonging of shades of coir yarr		group has been used	for the preparation			
	A) Highly	B) Medium	C) Less	D) Substantive			
41.	Type of yarn used as	s binding chain in Carı	natic Mat				
	A) 5 Ply Jute		B) 3 Ply Jute				
	C) 2 Ply Jute		D) Sisal				

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What is the length of No. 2 size mats in inc	hes	;?
A) 27	B)	21
C) 30	D)	36
Which one in the given list is a frame mat?	•	
A) Rod mat	B)	Mesh mat
C) Creel mat	D)	Loop mat
Sinnet mat is also known as		
A) Hollander mat	B)	Chain mat
C) Lovers knot mat	D)	Mesh mat
What is the drafting order of Fibre Mat?		
A) 2-1-1, 3-1-1	B)	1 4 3 2
C) 1 3 2 3	D)	1 3 1 2
Which one is a brush mat?		
A) Creel mat	B)	Mesh mat
C) Corridor mat	D)	Chain mat
The process aimed to cut the top portion of	pile	e structure of mat uniformly is called
A) Trimming	B)	Shearing
C) Clipping	D)	Stencilling
Dutch Mat is the other name for		
A) Creel mat	B)	Corridor mat
C) Carnatic mat	D)	Rope mat
In a rod mat, the brush or pile is formed ou	t of	
A) Topping yarn	B)	Tight warp
C) Slack warp	D)	Weft
WC1 is the quality mark of		
A) Chain mat	B)	Corridor mat
C) Carnatic mat	D)	Mesh mat
	A) 27 C) 30 Which one in the given list is a frame mat? A) Rod mat C) Creel mat Sinnet mat is also known as A) Hollander mat C) Lovers knot mat What is the drafting order of Fibre Mat? A) 2-1-1, 3-1-1 C) 1 3 2 3 Which one is a brush mat? A) Creel mat C) Corridor mat The process aimed to cut the top portion of A) Trimming C) Clipping Dutch Mat is the other name for A) Creel mat C) Carnatic mat In a rod mat, the brush or pile is formed our A) Topping yarn C) Slack warp WC1 is the quality mark of A) Chain mat	C) 30 D) Which one in the given list is a frame mat? A) Rod mat B) C) Creel mat D) Sinnet mat is also known as A) Hollander mat B) C) Lovers knot mat D) What is the drafting order of Fibre Mat? A) 2-1-1, 3-1-1 B) C) 1 3 2 3 D) Which one is a brush mat? A) Creel mat B) C) Corridor mat D) The process aimed to cut the top portion of pile A) Trimming B) C) Clipping D) Dutch Mat is the other name for A) Creel mat B) C) Carnatic mat D) In a rod mat, the brush or pile is formed out of A) Topping yarn B) C) Slack warp D) WC1 is the quality mark of A) Chain mat B)

51.	. Number of stencil plates required for a particular design on a mat depends upon				
	A)	Number of colours in the design	B)	Length of mat	
	C)	Thickness of the mat	D)	None of the above	
52.	The	woven mats are collected at the back	side	of the loom by operating	
	A)	Iron ratchet wheel	B)	Treadles	
	C)	Slay	D)	Wooden ratchet wheel	
53.		chemical used to convert coir needle fords is	elts	into Coir Polymer Composite	
	A)	Phenol formaldehyde	B)	Cellulose	
	C)	Wax resin	D)	Polyvinyl chloride	
54.	Coir	needle felts are fabric.			
	A)	Woven	B)	Non-woven	
	C)	Moulded	D)	None of the above	
55.		is used as a supports for creepe	rs b	pelonging to climber class plants.	
	A)	Coco pole	B)	Coir ply board	
	C)	Coir matting	D)	Coir pith	
56.	Nan	ne of the fungus which helps in Pith Co	mpo	osting.	
	A)	Agaricus bisporous	B)	Pleurotus sajar caju	
	C)	Agaricus compostris	D)	Agaricus	
57.	Whi	ch is the most preferred wood for makin	ng E	Brushes ?	
	A)	Teak wood	B)	Mango tree	
	C)	Coconut tree	D)	Rose wood	
58.	The	brush used for lavatory cleaning is			
	A)	Scrubbing Brush	B)	Banister Brush	
	C)	Commode Brush	D)	Form Cleaning Brush	
59.		machine used for leveling the top por le surface.	tion	of the brush so as to have uniform	
	A)	Top shearing machine	B)	Jig Saw	
	C)	Rotary Planer	D)	Lathe	

A -9-

60.	What is the Pile height of Hockey T	ype Commode Brush ?
	A) 2 inches	B) 1 inch
	C) 1.25 inches	D) 1.5 inches
61.	Coir liners used as garden pots are	made from
	A) Coir Geo-textiles	B) Coir Pith
	C) Coir Needle felt	D) Coir Wood
62.	The chemical used in bleaching of	coir fibre is
	A) Sulfuric Acid	B) Acetic Acid
	C) Hydrogen Peroxide	D) Chlorine
63.	Which one of the following is not th	e preparatory process of weaving of coir?
	A) Bleaching	B) Splicing
	C) Spooling	D) Beaming
64.	Drafting order of 4 shaft twill weave)
	A) 1324	B) 1234
	C) 131 424	D) None of these
65.	Spot matting is also known as	
	A) Saloon matting	B) Panama matting
	C) Dot matting	D) Ribbed matting
66.	What determines the width and der	nsity of the fabric in the loom ?
	A) Size of chain beam	B) Reed
	C) Tension beam	D) Heddle frame
67.	Which one of the following is Indian S and carpets ?	Standard Specification for coir matting, mourzouks
	A) IS: 15340 – 2003	B) IS: 12503 – 1988
	C) IS: 11420 – 1985	D) IS: 898 – 1985

68.	Which one of the following determines the width of the fabric woven in the loom?			
	A)	Heddle frame	B)	Sley
	C)	Shuttle	D)	Reed
69.	Dob	by looms which are used in coir indust	ry u	sually have
	A)	10 – 12 shafts	B)	16 - 18 shafts
	C)	12 - 16 shafts	D)	8 – 10 shafts
70.		process of bringing the inserted pick in rted in the fabric is known as	the	shed nearest to the last pick already
	A)	Beating	B)	Shedding
	C)	Picking	D)	Warping
71.		loom in which each and every warp ording to the will and pleasure of the we		•
	A)	Power loom	B)	Dobby loom
	C)	Jacquard loom	D)	Semi-mechanized loom
72.		ch one of the following is the standard si ie industry ?	ize ((cm) of rugs and mourzouks available
	A)	75 × 45	B)	75 × 40
	C)	70 × 45	D)	70 × 40
73.	Wha	at is the percentage of porosity in coir fi	bre	?
	A)	40	B)	45
	C)	50	D)	55
74.		ch type of coir fibre is comparatively de used mainly for the manufacture of bru	-	
	A)	White	B)	Yellow
	C)	Brown	D)	Dark

75.	Which one of the following physical properties of coir fibre is not influenced for its spinning?				
	A) Fineness	В	Length		
	C) Width	D	Stiffness		
76.	Which one of the follo	owing is not the drawbac	k of natural fibres ?)	
	A) High thermal sta	bility	Varying quality		
	C) High degree of r	noisture absorption D	Low impact stren	gth	
77.	Cotton fibre is extract	ted from			
	A) Stem	В	Leaf		
	C) Bark	D	Seed		
78.	Which one of the follo	owing is much coarser th	an most of other na	atural fibres ?	
	A) Coir	В	Cotton		
	C) Jute	D	Sisal		
79.	Sisal is mainly cultiva	ted in			
	A) China	В	India		
	C) Brazil	D	Sri Lanka		
80.	Which fibre is used to	make currency paper?			
	A) Abaca	В	Hemp		
	C) Sisal	D	Banana		
81.	A) Soil erosion andB) Embankment andC) Ponds and cana	d mine site reclamation	trol and stabilizatio	n of the following.	
82.		coir fibre is around the fo	• • • • • • • • • • • • • • • • • • • •		
	A) 45.84	B) 42.84 C)	46.48	D) 39.84	

A -12-

83.	Which of the following IRC code books construction of roads using coir geo-textile							
	A)	128-2021		B)	129-2020			
	C)	129-2022		D)	127-2022			
84.		at is the quality sp H2m9	ecification for Coir G B) H2m6		xtiles with a weig H2m5	ht of 900 g/m ² ? D) H2m4		
85.	A) B) C)	Coir pith, coir fib	s, coir pith, coir needle Geo-textiles, coir pith	e felt	and lawn			
86.			, which pedal is pro at is not manual, as i			•		
	A)	Second	B) Third	C)	First	D) Fourth		
87.			s the beating, sheddir icking is done manua	-	d winding done by	power transmitted		
	A)	Fully Automatic	Loom	B)	Semi-automatic L	.oom		
	C)	Pneumatic Loon	า	D)	Jacquard Loom			
88.		ch loom could hellogy ?	p in conserving trees	s, whi	ch are essential f	or maintaining		
	A)	Dobby Loom		B)	Metallic Handloor	n		
	C)	Wooden Handlo	om	D)	Jacquard Loom			
89.	In a	pneumatic loom,	which one of the follo	owing	replaces the trea	adles ?		
	A)	Pedals		B)	Shaft			
	C)	Lamp rods		D)	Compressor			
90.	The	fundamentals of	weaving are the follo	wing				
	A)	Warping, Splicin	g and Spooling					
	B)	Beaming, Splicir	ng and Spooling					
	C)	Shedding, Pickir	ng and Beating					
	D)	Drafting, Denting	g and Weaving					

91.	The first coir factory was established in the year							
	A)	1917	B) 1859					
	C)	1857	D) 1903					
92.	According to IS 9308 Part 4, which of the following tests is not mandatory for evaluating the quality of curled coir rope ?							
	A)	A) Tensile strength test to determine breaking load						
	B)	B) Twist count test to measure the number of twists per meter						
	C)	C) Water absorption test to assess water retention capacity						
	D)	D) Visual inspection for uniformity, colour and presence of defects						
93.	During decortication process of coir fiber for curled rope production, which factor most significantly impacts the final breaking strength of the rope?							
	,	A) Speed of decorticating machine						
	,	B) Type of decorticating blade used						
	C) Moisture content of the raw coir husk							
	D)	Amount of dust removed during decor	tication					
94.	During coir needled felt preparation, what factor primarily determines the density of the final felt product?							
	A)	A) Type of needle used						
	B)	B) Linear density of the individual coir fibres						
	C)	C) Speed at which the needles penetrate the coir mat						
	D) Number of needle passes made over the coir layer							
95.	As per IS 11060, the nominal thickness of a moulded rubberized coir mattress in Grade I quality should be							
	A)	Less than 10 mm	B) 10 mm to 15 mm					
	C)	15 mm to 25 mm	D) More than 25 mm					
96.	A) B) C)	Indentation load deflection test is used. Tensile strength of the coir fibre Elasticity and resilience of the cushior Fire resistance properties Adhesion between rubber and coir						

A -14-

97	7. During compounding of NR latex, the primary purpose of adding dispersing agent							
07.	is to							
	A)	Increase the viscosity of the latex						
	B)	Prevent agglomeration of filler particles						
	C)	Accelerate the vulcanization process						
	D)	Improve the adhesion between latex and additives						
98.	As per IS 11060, the maximum moisture content permitted in moulded rubberize							
	coir cushioning is							
	A)	Less than 5%		B)	5% to 10%			
	C)	10% to 15%		D)	More than 15%			
99.	9. The process aimed to prevent the loss or gain heat by the insulated environment known as							
	A)	Thermal insulation	on	B)	Thermal softening			
	C)	Thermal pulping		D)	None of the above			
100. Match the following:								
	Sulphur a. Modify physical property							
	2.	2. Zinc Oxide b. Vulcanizing agent						
	3.	3. Antioxidants c. Cure activator						
	4.	4. Filler d. Impart age resisting property						
	A)	1 - c, $2 - a$, $3 - b$ and $4 - d$						
	B)	1 – b, 2 – c, 3 – d and 4 – a						
	C)	1 – c, 2 – b, 3 – a and 4 – d						
	D)	D) $1 - d$, $2 - a$, $3 - c$ and $4 - b$						

Space for Rough Work

A -16-