	(c)	What is fractionation efficiency of a combing machine? He it measured?	aw is 4					
SECTION-D								
6.	(a)	Explain the working principle of bobbin leading and flyer least speedframe. Which one is generally used and why?	ding 10					
	(h)	What do you mean by Ratching and Hollowing?	4					
	(c)	Suggest the changes to be done at speedframe, if you need change roving hank from 0.8 Ne to 1.8 Ne.	d to					
7.	(a)	What are the objectives of a ringframe 7 Describe the flow of						
		material on a ringframe with a suitable diagram,	10					
	(b)	Explain the building-motion of a ringframe with a diagram.	10					
SECTION-E								
S.	(u)	What is Line-Conor? Explain its working mechanism.	10					
	(b)	Mention the maintenance schedule carried out in a mill velerence to a winding machine.	with 10					
9.	(a)	What is dry doubling and wet doubling ? Discuss different st	yles					
		of threading with reference to the wet doubling process.	10					
	(b)	Discuss different types of faults associated with a plied y	/A/cr					
		alongwith their remedies.	10					

Roll No. Total No. of Pages: 4 BT-3/D11 7655 Yarn Manufacture-I (Old) upto Dec.-2010 Paper : TT-205 Time: Three Hours] {Maximum Marks: 100 Note :- Total FIVE number of questions are to be attempted. Among them, question number 1 is compulsory and attempt other FOUR questions taking ONE from each Unit. SECTION-A (a) Tick the correct answer: (i) Fine cotton is associated with: (a) Roller Om (b) Saw Gin (ii) 100 Ne cotton yarn essentially involves; (a) Combing process (b) Three draw frame passages (iii) Pianofeed regulating motion controls the regularity of material: (a) Langthwise (b) Width wise (iv) Space in between cylinder and Flut increases at ; (a) The entrance zone (b) Exit zono of a cylinder and flat (v) Amount of draft employed by a card is about : (a) 50 (b) 100 (c) 150 (vi) Number of silver fed to Unilap is: (a) 24 (b) 28 (c) J2

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(vii) Hi	gher noil % in	a comber	nocessitates :				
		Forward for						
	(b)	Backward 1	icad					
(vii) Th	c type of hook	s in a lap :	need for a com	ber should be			
		Leading		Traiting				
(ix)	Nu	mher of silve	r fed to a	drawframe pro	cossing 100%			
		nbed material						
		6 .	(µ)	8				
٠.	- ,	10	-					
(x)	Number of drawframe passages following a comber should be:							
	(a)	One	(b)	Two				
	(c)	Three						
(xi)	Rol	Roller setting of a spoodframe is primarily dictated by :						
	(a)	Pibre length	(b)	Top roll pressue	re			
	(c)	Linear densi	ly of fibre					
(xii)	Bre	ak draft of a s	ingftume l	ies in the ruoge	of:			
	(a)	0.1 - 0.9	(b)	1.01 ~ 1.5				
	(c)	2~3						
(xiii)	Twi	ist multiplier o	f 10 0% pc	lyester hosiery y	um is almnst :			
	(a)	2.0	(b)	3.0				
	(¢)	4.0						
(xiv)	l)iro nec	oction of twis	t genorall	y followed in a	ring doubler			
	(a)	Sidirection	(b)	Z direction of tw	vist			
(xv)		ding process e						
		Thin places						
		Thick places						
		Neps						
	(d)	Objectionalil	e Gults of	в уалп	t5			
			2		Conta			

(b)	Answer in short (one or two sentences):				
	(i) How is the performance of a Blow room line judged?				
	(ii) What is the technical importance of the ratio of fau speed and heater rpm in a blow room line?				
	(iii) How does increase in lap weight affect comber soil % ?				
	(iv) What is the function of a false-twister on a speed frame?				
	(v) How does mass of a travoller depend on yarn linear density?				
	SECTION-B				
(a)	Suggest a modern Blowroom line suitable for processing 40°				
	combed yarn. Give their constructional details and working				
	operation, 10				
(b)	What is the importance of blending? Discuss commonly used				
	methods of blending alongwith their advantages and				
	disadvantages. 10				
(a)	Explain the theories of carding action on a carding machine.				
(h)	Explain with the help of a diagram some important parameters				
	of metallic card clothing and their influence on carding action.				
	:0				
	SECTION-C				
(a)	Mention the objectives of a drawirame. How are those achieved				
	on a drawframe?				
(b)	What is drafting wave? Discuss different factors introducing				
	irregularities in drafted material.				
(a)	Give an estimate of the role of precomb draft and fibre				
	presentation on combing quality.				
(b)	How does combing noil % vary with step gauge and top-comb parameters ?				

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