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	2223 Ho	-	70	Marks	Seat	No.				
j	Instru	ctions –	(1)	All Questions	s are Comp	ulsory.				
			(2)	Answer each	next main	Questio	on on a	n new	page.	
			(3)	Illustrate your necessary.	r answers	with nea	at sketc	hes w	herever	
			(4)	Figures to the	e right ind	icate ful	ll mark	s.		
			(5)	Assume suita	ble data, if	necess	ary.			
			(6)	Use of Non-p Calculator is			tronic 1	Pocket		
			(7)	Mobile Phone Communication	on devices	2				
				Examination Hall.				Mar	·ks	
1.		Attempt	any	<u>FIVE</u> of the	following	:				10
	a)	List the	fibre	properties tes	sted on AF	IS.				
,			Key v							
			ring							
			ndice							
			labou							
	f) List the rotor									
g) Explain			the c	concept of mac	chinery aud	lit.				

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5.

Marks Attempt any THREE of the following: a) Explain role and scope of process control in spinning with chart. b) Describe the procedure for measurement of cleaning efficiency of blowroom. c) Explain index of irregularity. d) Explain steps for measurement and control of the productivity in spinning. Attempt any THREE of the following: a) Describe procedure for controlling the combre waste. b) Explain the factor affecting the yarn strength. c) Suggest the renovation done at ring frame to reduce end breaks. d) Explain methods for controlling C.V. % of rotor yarn lea count. Attempt any THREE of the following: 12 a) Explain FQI and its importance in mixing. b) Explain how cost quality index is computed and state its importance. c) Explain the measures to be taken to control silver regularity at draw frame. d) Explain causes and remedies for any two yarn faults. e) Explain the scope of energy conservation in the spinning mill. 12 Attempt any TWO of the following: a) Explain the factors affecting within and between bobbin count variation. b) Explain the methods to control yarn strength variation in rotor varn. Suggest the check list for machinery audit in spinning mill c)

for blowroom and carding department with respect to observation and corrective action.

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6. Attempt any TWO of the following:

- a) Explain the concept of yarn realisation. Give the chart for recording account for the same.
- b) Describe importance of fractionating efficiency at comber. Explain how it is calculated.
- c) Calculate cleaning efficiency of blowroom and carding department for 30^s mixing. Bale cotton containing 5% trash output of blowroom containing 2.75% trash and carded silver containing 0.275% trash.

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