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- *Instructions* (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following:

10

- a) State the function of trumpet used in carding.
- b) List the names of different hooks in card silver and write down their percentage.
- c) State the function of stripping process in card maintenance.
- d) Define cots buffing.
- e) Define auto levelling.
- State the object of silver lap. f)
- Define forward feed.

		Γ	viarks
2.		Attempt any THREE of the following:	12
	a)	Describe the operating principles of carding.	
b)		State the features of modern card.	
	c)	Describe with neat sketch passage of material through draw frame.	
	d)	Calculate the production of draw frame from the following particulars	
		i) Front roller speed - 190 rpm	
		ii) Front roller diameter - 1.4"inch.	
		iii) Tension draft - 1.02	
		iv) Hank of silver delivered - 0.16	
		v) Efficiency - 82% No. of deliveries - 2.	
3.		Attempt any THREE of the following:	12
	a)	Draw and label passage of materials through carding.	
	b)	State the application of stationery flats used in carding also show by line diagram.	
	c)	Explain the factors affecting the draft in drawframe based on fibre material.	
	d)	State the effect of pre comb draft on combing.	
4.		Attempt any THREE of the following:	12
	a)	Differentiate any four points between lap feed and chute feed.	
	b)	Explain the importance of draft distribution in drawframe and give draft distributions.	
	c)	List the names of top roller weightening system used in drawframe and with line diagram explain them.	
	d)	State the causes and remedies of drawframe silver defects.	
	e)	Differentiate between ribbon lap and lap former.	

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				Marks			
5.		Atte	mpt any TWO of the following:	12			
	a)	Classify the card clothing and explain them.					
	b)	State the salient features of high production draw frame.					
	c)		ulate the production of comber from the following culars:				
		i)	Nips/min - 300				
		ii)	Weight of lep ted - 72 gm/yd.				
		iii)	feed/nip - 0.23 inch.				
		iv)	Efficiency - 88%				
		v)	Noil - 14%				
		vi)	No of heads - 8				
		calculate in kgs/shift of 1.5 hrs.					
6.		Attempt any TWO of the following:					
	a)	Calculate the production of lap former in pounds/shift of 7.5 hrs. from the following particulars:					
		i)	feed silver hank - 0.12				
		ii)	No of doubling - 24				
		iii)	Draft - 1.3				
		iv)	Delivery speed - 86 yards/min				
		v)	Efficiency - 90%				
	b)	Explain the effect of following gauges on comber sliver quality					
		i)	Step gauge				
		ii)	Brass groove gauge				
		iii)	Distance gauge				
	c)	_	ain the effect of machine and material parameters on oler silver quality				