

	ours / 100 M		Seat No.								
	Instructions :	 (2) Answe (3) Illustra (4) Figure (5) Assum (6) Use of permis (7) Mobile 	estions are comp r each next mai ate your answer s to the right in te suitable data, Non-programm s sible . e Phone, Pager o s are not permis	n que s with dicate if nec able 1 and a t	stion neat e full cessar Electi ny otl	sketc mark ry. ronic L	hes wl s. Pocket ectron	herev t Calc ic Col	rulato	r is	
										Ν	Marks
A	ttempt any ten of the	following:									20
a)	Write the objects of	f draw frame									
b)	Write the diameters	s of feed rolle	r licker-in, cylind	ler and	l doffe	er.					
c)	Write the percentag	ge of differen	t types of hooks i	n card	led sli	ver.					
d)	Write the carding an	ngles of licke	r in and cylinder	wire p	oints.						
e)	Write the function of	of mote knive	s.								
f)	List the impurities re	emoved by ca	arding machine.								
g)	Write the functions	of stationary	flats.								
h)	Why polishing of w	vire point is no	ecessary?								
i)	Define : Draft.										
j)	Why cots buffing is	s necessary?									
k)	Define : auto levelle	er.									
l)	Find the hank of sliv	ver if weight	is 52 grains/yard.								

		Marks
2.	Attempt any four of the following :	16
	a) Draw and label passage of material through carding machine.	
	b) Write any four difference between lap feed and chute feed system.	
	c) Draw and label flock feeder.	
	d) Write where point to point and back to back action takes place in carding.	
	e) Write advantages of opposite movement of flats in modern carding.	
	f) Write any four defects, causes and remedies in draw frame.	
3.	Attempt any four of the following :	16
	a) Write the change places in carding.	
	b) Draw and label long term auto-leveller in carding.	
	c) Why auto leveller is necessary in carding ? Which type of loop is used ?	
	d) Draw and label horse-fall grinder.	
	e) What is stripping? Where stripping action takes place in carding?	
	f) With neat sketch explain Tongue and groove measuring system.	
4.	Attempt any four of the following :	16
	a) Write any four difference between full width and horse-fall grinder.	
	b) Write the importance of setting of the following :	
	i) Flat and cylinder	
	ii) Cylinder and doffer.	

c) Write how dust extraction takes place in high performance card.

[2]

[3]

16

- d) Calculate the production of a carding machine from the following particulars in kgs/shift of 7.5 hours.
 - i) Doffer speed 45 rpm
 - ii) Doffer diameter 27 inch
 - iii) Hank of sliver -0.13
 - iv) Efficiency-85%
 - v) Tension draft 1.1.
- e) Write any eight modern developments in draw frame.
- f) Calculate the total draft from the following particulars :
 - i) Doffer diameter -27 inch.
 - ii) Doffer speed 34 rpm
 - iii) Lap roller dia. 152.4 mm
 - iv) Lap roller speed -3 rpm
 - v) Doffer to coiler calender tension draft -1.2.
- 5. Attempt any four of the following :
 - a) Write the objects of carding.
 - b) Draw and label passage of material through draw frame.
 - c) Write the factors which affects drafting.
 - d) Write any four difference between spring and pneumatic top roller weighting.
 - e) With neat sketch explain 4/3 drafting system.
 - f) Define:
 - i) Open loop.
 - ii) Closed loop.

- 6. Attempt any four of the following :
 - a) Write modern developments in carding.
 - b) Write any four defects causes and remedies in carding.
 - c) Write any four difference between over and under coiling.
 - d) Write the stop motions in draw frame.
 - e) Calculate the production of a draw frame from the following particulars in kgs/shift of 7.5 hrs.
 - i) Front roller rpm -1170
 - ii) Front roller diameter $-1^{1/2}$ inch
 - iii) Weight of sliver delivered -55 grains/yd.
 - iv) Efficiency-87%
 - v) No. of deliveries -02
 - f) What is roller slip? Write any four causes of roller slip.

Marks 16