## 17344

## 11920 3 Hours / 100

- 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

## Answer any TEN of the following: 1.

**20** 

- a) State the object of carding.
- b) What are the functions of flock feeder?
- List the disadvantages of lap feed system.
- d) What is unidirectional feed?
- What are the functions of grid bar? e)
- Which type of action taken place between the following: f)
  - (i) Licker-in and cylinder
  - (ii) Cylinder and flat
- g) State the licker in wire specification.
- h) What is additional carding segments? Why it is necessary?
- i) State the objects of draw frame.

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_,_		r – 1	Marks		
	j)	List the stopmotions used in drawfram.			
	k)	What is cots buffing? Why it is necessary?			
	1)	State the top roller weights of a 4 over 4 drafting system.			
	m)	What are the advantages of suction system in draw frame?			
	n)	Define open loop.			
	o)	Find the hank of a sliver if it weighs 52 grain / yard.			
2.		Answer any <u>TWO</u> of the following:	16		
	a)	Compare lap feed system with chute feed system.			
	b)	With neat sketch describe passage of material through carding	•		
	c)	With neat sketch describe flock feeder's working.			
3.		Answer any <u>TWO</u> of the following:	16		
	a)	What are the functions of flats? State the advantages of reverse direction movement of flat to cylinder.	e		
	b)	With neat sketch describe working of CRV unit.			
	c)	Write difference between under coiling and over coiling o sliver in a can.	f		
4.		Answer any <u>TWO</u> of the following:	16		
	a)	Describe modern developments in carding.			
	b)	Discuss various carding detects, causes and remedies.			
	c)	Calculate the production of a carding machine in kgs/ shift of 7.5 hours from the following particulars:			
		(i) Doffer dia 27 inch.			
		(ii) Doffer speed - 30 rpm			
		(iii) Tension draft - 1.1			
		(iv) Weight of sliver - 52 grains / yard			
		(v) Efficiency - 85%			

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5.		Ansv	wer any <u>TWO</u> of the following:	16
	a)	With fram	n neat sketch describe passage of material through draw ne.	
	b)	State	e the factors affecting on drafting in a draw frame.	
	c)		ne: Autoleveller. With neat sketch describe torque and ve measuring system used in draw frame.	
6.		Ansv	wer any <u>TWO</u> of the following:	16
	a)	State	e any eight modern developments in draw frame.	
	b)	Discuss detects, causes and remedies in draw frame.		
	c)	Calculate the production of a draw frame machine in kgs/shir of 7.5 hours from the following particulars.		
		(i)	Back roller dia - 25.4 mm	
		(ii)	Back roller speed - 180 rpm	
		(iii)	Total draft - 6.2	
		(iv)	Hank of sliver delivered - 0.12	
		(v)	Efficiency - 90%	
		(vi)	No of deliveries - 01	