17224

15116

3 Hours / 100 Marks

Seat No.

- 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 TEN of the following:

20

- a) List down classification of dust.
- b) List down characteristics of the raw material influencing spinning.
- c) State the objectives of binning.
- d) How conditioning of cotton is done? What is its importance?
- Why mixing of cotton is done? e)
- f) Give flow-chart for manufacturing cotton yarn.
- g) Why baling and pressing of cotton is done?
- State the objectives of blow room. h)
- Define cleaning efficiency of a blow room machine and give i) an expression for the same.

17224		[2]	N.T. 1
	j)	Elaborate 'Fibre Stressing Index'.	KS
	k)	What is the function of grid bars?	
	1)	Give classification of opening devices in the blow-room.	
	m)	List down various adjustments of grid bars to alter % waste extraction.	
	n)	List down various ways of dust removal.	
	o)	Write a short note on recycling of cotton.	
2.		Attempt any TWO of the following:	16
	a)	Explain in detail how various yarn properties are influenced by (importance of)	
		(i) Fibre fineness	
		(ii) Fibre strength	
	b)	(i) Write a detailed note no cultivation of cotton in India.	
		(ii) Compare mechanical picking of cotton with hand picking.	
	c)	Describe the principle and working of electronic metal extractor	

16

with the help of a neat diagram.

of blow-room machines.

3.

Attempt any TWO of the following:

and explain working of any two of them.

a) Describe the effect of ginning process on fibre properties.

b) Elaborate different types of 'Feed apparatus.' used in components

c) List down various opening devices used in blow room. Draw

17224		[3]	
		N	Marks
4.		Attempt any TWO of the following:	16
	a)	Explain the significance of fibre length and maturity on various yarn properties.	
	b)	List down various factors which influence degree of opening, cleaning and dust removal.	
	c)	(i) List down five different zones in which blow room machines can be classified. State their significance.	
		(ii) Write a short note on automatic bale opening machines. State their importance.	
5.		Attempt any <u>TWO</u> of the following:	16
	a)	Describe the working of Maxi-Flow with the help of a neat diagram.	
	b)	Explain the construction and working of 'Chute feed system' of any model with the help of a neat diagram.	
	c)	Describe the working of Cleanomat (CVT) cleaner with the help of a neat diagram.	
6.		Attempt any <u>TWO</u> of the following:	16
	a)	How dust is removed from cotton in blow room? Which are the methods to do so?	
	b)	Explain in detail controlling of material flow in blow room. Discuss the merits and demerits of continuous operation and stop-go operation.	
	c)	Describe construction and working of Double Roller Gin with the help of a neat diagram.	