# 17224

15162 3 Ho	2 urs / 100 Marks Seat No.
Instrue	ctions – (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.
	Mark
1.	Attempt any <u>TEN</u> of the following: 2
a)	Define slenderness ratio.
b)	List the names of essential fibre properties.
c)	State advantages of land picking.
d)	Why pre ginning is necessary?
e)	Why baling and pressing of cotton is necessary?
f)	Define fibre maturity.
c) d) e)	State advantages of land picking. Why pre ginning is necessary? Why baling and pressing of cotton is necessary?

- g) What do you mean by blending?
- h) What is the function of grids.
- i) What is optical regulating system.
- j) Why metal extractors are necessary?

16

16

- k) Define cleaning efficiency with formulae.
- 1) Write the function of dustex DX.
- m) What do you mean by fly waste?
- n) Why recycling of raw material is necessary?

#### 2. Attempt any FOUR of the following:

- a) Explain the desirable fibre properties.
- b) Define : Nep, write any two causes of neps
- c) Define : elongation. Write the importance of elongation.
- d) Explain the effect of dust on human health.
- e) Explain the effect of fibre fineness on spinning.
- f) Differentiate between mechanical and hand picking of cotton.

#### 3. Attempt any FOUR of the following:

- a) Draw and label double roller gin.
- b) Explain the effect of ginning on fibre properties.
- c) Explain stack mixing.
- d) Define : homogenous mixing, write difference between mixing and blending.
- e) Write short notes on cotton cultivation in India.
- f) Explain objectives of blow room.

#### 4. Attempt any FOUR of the following:

- a) Draw and label bale opener.
- b) State the advantages of blendomat.
- c) Draw and label Maxiflow cleaner.
- d) Draw and label Multimixer.
- e) What are the objects of unimixer?
- f) Differentiate between mechanical and pneumatic transport of material.

16

### 17224

## Marks

5.		Attempt any FOUR of the following:	16
	a)	Explain the function of mechanical regulating devices.	
	b)	Write short note on maganetic metal extractors.	
	c)	Explain scutcher with neat labelled diagram.	
	d)	Draw and label cleanomet cleaner.	
	e)	State the advantages of card feeder.	
	f)	Explain five zone machine installation.	
6.		Attempt any FOUR of the following:	16
	a)	Explain about fire eliminators.	
	b)	Write short note on disposal of dirty waste.	
	c)	Draw and label uniflock.	
	d)	Draw and label rollers with	
		(i) spikes	
		(ii) toothed discs	
		(iii) fine saw tooth	
		(iv) blades	
	e)	Describe working of step cleaner with neat sketch.	
	f)	Define :	
		(i) cleaning degree	
		(ii) fibre stressing index	