## 22461

	2223 Ho		70	Marks	Seat	No.							
Instructions –			(1)	All Questions are Compulsory.									
			(2)	Answer each	next main	n Quest	ion o	on a	a ne	ew	pag	ge.	
			(3)	Illustrate your necessary.	answers	with ne	eat s	ketc	hes	wł	nere	ever	
			(4)	Figures to the	right ind	licate fi	ull n	nark	s.				
			(5)	Assume suitab	ole data, i	f neces	sary.						
			(6)	Use of Non-p Calculator is	•		ectror	nic 1	Poc	ket			
			(7)	Mobile Phone Communicatio Examination H	n devices	•							
												Ma	rks
1.	1. Attempt any <u>FIVE</u> of the following:									10			
	a) State the			e object of roving frame.									
b)		State the object of litter motion used in roving frame.											
	c)	State the importance of silver stop motion used in roving frame.											
d)		State the function of baloon control used in ring frame.											
	e)	State the	tate the importance of direct drive in ringframe.										
	f)	List the names of travellers used in ringframe.											
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g) List the types of cop build in ringframe.

2.

## Attempt any <u>THREE</u> of the following: a) Elaborate selection of different hanks of drawframe silvers to be used in roving frame with justification. b) Explain the effect of top roller pressure on rove material produced.

- c) Describe in detail automation in roving frame machine.
- d) Give the names of different change places in roving frame with their formulas.

## 3. Attempt any <u>THREE</u> of the following:

12

- a) Draw and label the parts of building mechanism of roving frame.
- b) Calculate the production of roving frame from following particulars in kgs/shift of 8hrs/frame of 120 spindles.
  - i) Spindle speed 800 rpm.
  - ii) T.M.-1.1
  - iii) Weight of rove 7 grains/yd.
  - iv) efficiency 85%
- c) Draw sketch of top arm drafting system of roving frame giving details of roller diameters, load on top rollers and roller setting.
- d) Describe with neat sketch. Passage of material through ring frame.

## 4. Attempt any <u>THREE</u> of the following:

- 12
- a) Describe with neat sketch working of building mechanism on ring frame.
- b) Explain spinning triangle with neat sketch and its importance.
- c) List the names of rings and draw a sketch of each of them.
- d) List the names of travellers and draw a sketch of each of them.
- e) Describe with neat sketch traveller clearer and give setting and state its importance.

Marks

12

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Attempt any TWO of the following: 5. 12 State the object of building mechanism and its effect on a) quality of ring yarn. b) State the causes and remedies of end breakages in ring frame. c) State the modern features of high production ring frame. Attempt any TWO of the following: 6. 12 a) List the names of spindle drive and explain each drive. b) Calculate the production of ring frame from the following particulars:i) Spindle speed - 19000 T.M. - 4.2 ii) Efficiency - 90% iii) No spindle/frame - 1008 iv) Count spun - 32 Ne v) Calculate the production/frame/shift of 7.5 hrs. c) Calculate time in hours to exhaust-2.0 kg roving bobbin at ring frame working with following particulars i) Spinle Speed = 20,000 rpm. Count Spun =  $32^{s}$  Ne ii) iii) Twist Multiper = 3.9

- Efficiency = 92%iv)
- hank of roving = 1. v)