17225

1	1920)													
3	Ho	urs /	10(Marks	Seat	No.								
	Instru	ctions –	(1)	All	Questions	are Com	pulsor	y.							
			(2)	Ans	swer each 1	next main	n Ques	stio	n c	n a	a ne	ew	pag	e.	
			(3)	Illu nec	strate your essary.	answers	with	nea	t sl	cetc	hes	w	here	ever	
			(4)	Fig	ures to the	right ind	licate	ful	l m	ark	s.				
			(5)	Ass	sume suitab	le data, i	f nece	essa	ıry.						
			(6)	Mo Coi Exa	bile Phone, mmunication amination H	Pager an n devices Iall.	nd any are r	y o not	the per	r E mis	lect ssib	ron le i	ic n		
														Ma	rks
1.		Attempt	any	TE	<u>N</u> of the f	ollowing:	:								20
	a)	What are the objects of Prin winding machine?													
	b)) Enlist the features of modern Pirn winding machine.													
	c)	e) What are the different yarn numbering systems?													
	d)) List various types of shedding mechanisms.													
	e)	Write of	ojects	of	picking.										
	f)	What ar	e the	adv	vantages of	+ve left-	-off n	noti	on?)					

- g) Enlist various take-up mechanisms used on power loom.
- h) Draw diagram of shuttle box and name each part.
- i) Why oscillating back rest and lease rods are used on power loom?
- j) What care is needed for storing healds and reeds?
- k) What is the function of check strap?

- 1) List any four commonly occurring fabric defects.
- m) What will be he number of ends/inch in a reed of 3/80^s stock post reed?
- n) State the formula used to calculate fabric weight in gms/m^2 .
- o) Give causes of crack.

2. Attempt any <u>TWO</u> of the following:

- a) Explain construction and working of modern auto pirn winding machine with a neat sketch.
- b) Draw a semi-positive let-off motion and label the parts.
- c) Calculate the length in meters of yarn on a cheese of 80^s combed yarn weighing 1 kg.

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

- a) Convert 40° , 60° , 80° and 100° Ne to Tex and denier.
- b) Describe passage of warp through plain under pick powerloom with a neat sketch.
- c) List the secondary motions of a powerloom and explain the working of over pick mechanism with the help of a neat sketch.

4. Attempt any TWO of the following:

- a) With the help of a neat diagram, explain seven wheel intermittent take-up motion. Derive formula for pick constant.
- b) What is the objective of let-off motion? What are the disadvantages of -ve let-off?
- c) Compare loose reed and fast reed mechanism.

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- a) Describe construction and working of side weft fork motion with a neat sketch.
- b) (i) Draw loom brake mechanism and label the parts.
 - (ii) State the functions and types of warp protector on a loom
- c) What care is to be taken while using and storing the following loom accessories?
 - (i) Picker
 - (ii) Reed
 - (iii) Heald
 - (iv) Shuttle

6. Attempt any <u>TWO</u> of the following:

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- a) Calculate production / day in meters from following particular.
 - (i) Loom speed 180 rpm
 - (ii) PPI 60
 - (iii) Efficiency 95%
- b) What is the weight in gm/m² of a fabric having following particulars.
 Ends/inch 60, Pick/inch 60, Count of warp 30^s, Count of weft-24^s, Warp crimp 6%, Weft-crimp 5%.
- c) A beam has 4000 ends. Calculate reed required for 46" loom width, 4 threads per dent as drawing in order.

Marks

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