22366

22223

3 Hours / 70 Marks Sea

Seat No.								
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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 <u>FIVE</u> of the following:

10

- a) State the objects of warping machine.
- b) Name the different types of warping machine.
- c) State the need for warping process.
- d) Select the warping machine needed to manufacture stripe shirting with eight blue, two white and six black ends.
- e) State the advantages of any two types of creels used for Beam warping machine.
- f) State the function of lease rod in sectional warping.
- g) State the objects of sizing.

22366 [2]

		Ma	arks
2.		Attempt any THREE of the following:	12
	a)	State the differences between sectional warping and beam warping.	
	b)	State the importance of tensioner and their types used in beam warping.	
	c)	Enlist the features of modern sectional warping machine.	
	d)	Calculate production of beam warping machine in kg/shift of eight hours working with following particulars.	
		Speed of machine - 600 m/min.	
		Count of yarn - 15 Tex	
		Number of ends - 800	
		Efficiency of m/c - 60%	
3.		Attempt any THREE of the following:	12
	a)	Describe different winding packages used for warping, with sketch.	
	b)	Draw the passage of warp yarn through beam warping machine and label the parts.	
	c)	Calculate the required creel capacity for sectional warping machine for production of stripe shirting fabric having rpi = 80; reel space = 60" and number of sections on drum are 12.	
	d)	State what is congealing property of size paste with it's importance and disadvantages.	
4.		Attempt any THREE of the following:	12
	a)	State the steps in preparation of size paste.	
	b)	Draw the sketch of size pressure cooker and label the parts.	
	c)	Draw the sketch of any size box and label the parts.	
	d)	Explain the factors affecting the rate of drying of sized warp yarn-	
	e)	State the factors governing pickup of size paste.	

223	66		[3]			
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5.		Attempt any TWO of the following:				
	a)	i)	Explain the importance of temperature and level control at size paste.			
		ii)	State the wet splitting of sized warp and it's importance.			
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- b) List the factors affecting migration of ends in sizingc) The speed of sizing machine is 30 vards/min. then
- c) The speed of sizing machine is 30 yards/min. then Calculate
 - i) Actual production in yards/shift of 8 hours if efficiency is 50%
 - ii) The total length of warp sized in a shift if total number of ends in a beam arc 3000

12

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

- a) Describe with the sketch of the passage of warp yarn through sectional warping machine.
- b) Describe the passage of warp through multicylinder sizing machine and label the parts.
- c) State the principle at working of automatic size box and how it controls the variation in size addon.