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		70	Marks	Seat	No.							
Instructions – (1)			All Questions are Compulsory.									
		(2)	Answer each r	next main	Questi	on c	on a	ne ne	W	pag	e.	
		(3)	Illustrate your necessary.	answers v	with ne	at sl	ketc	hes	wł	nere	ever	
		(4)	Figures to the	right indi	icate fu	ıll m	ark	s.				
			Assume suitable data, if necessary.									
			Use of Non-programmable Electronic Pocket Calculator is permissible.									
		(7)	Communication	n devices	•							
											Ma	rks
	Attempt	t any	<u>FIVE</u> of the	following:	:							10
a)	Define the term "location" with example.											
b)	Define working efficiency and machine efficiency.											
c)	State the importance of MLR in textile processing.											
d)	State the properties of liquid fuel.											
· ·	Suggest the suitable chemical recipe for resin finish of 100% cotton fabric.											
f)	Enlist the chemicals required for bleaching of cotton.											
	Name any four material handling equipment used in textile industry.											
	Ho <i>nstruc</i> <i>a)</i> <i>b)</i> <i>c)</i> <i>d)</i> <i>e)</i> <i>f)</i> <i>g)</i>	Attempt a) Define t b) Define t c) State the d) State the c) State the f) Enlist the g) Name at	Hours / 70 nstructions – (1) (2) (3) (4) (5) (6) (7) Attempt any (7) Attempt any (7) Attempt any (7) (7) Attempt any (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	 Hours / 70 Marks <i>Instructions</i> – (1) All Questions (2) Answer each r (3) Illustrate your necessary. (4) Figures to the (5) Assume suitab (6) Use of Non-productor is p (7) Mobile Phone, Communication Examination H Attempt any <u>FIVE</u> of the a) Define the term "location" where the importance of MLZ of State the importance of MLZ of State the properties of liquid e) Suggest the suitable chemication for the sui	 Hours / 70 Marks Seat <i>instructions</i> – (1) All Questions are <i>Comp</i> (2) Answer each next main (3) Illustrate your answers of necessary. (4) Figures to the right indit (5) Assume suitable data, if (6) Use of Non-programmate Calculator is permissible (7) Mobile Phone, Pager an Communication devices Examination Hall. Attempt any <u>FIVE</u> of the following: a) Define the term "location" with examts b) Define working efficiency and machinic c) State the importance of MLR in textiand d) State the properties of liquid fuel. e) Suggest the suitable chemical recipe for cotton fabric. f) Enlist the chemicals required for bleading g) Name any four material handling equipable content of the suitable chemical properties of the suitable and the suitable chemical properties of the suitable properties of the suitable chemical properties of the suitable properties of the suitable chemical properties properties of the properties properties	 Hours / 70 Marks Seat No. <i>Instructions</i> – (1) All Questions are <i>Compulsory</i>. (2) Answer each next main Questi (3) Illustrate your answers with ne necessary. (4) Figures to the right indicate fue (5) Assume suitable data, if necess (6) Use of Non-programmable Elead Calculator is permissible. (7) Mobile Phone, Pager and any Communication devices are not Examination Hall. Attempt any <u>FIVE</u> of the following: a) Define the term "location" with example. b) Define working efficiency and machine ef	 Hours / 70 Marks Seat No. Instructions – (1) All Questions are Compulsory. (2) Answer each next main Question of (3) Illustrate your answers with neat sinceessary. (4) Figures to the right indicate full mm (5) Assume suitable data, if necessary. (6) Use of Non-programmable Electron Calculator is permissible. (7) Mobile Phone, Pager and any othe Communication devices are not per Examination Hall. Attempt any FIVE of the following: a) Define the term "location" with example. b) Define working efficiency and machine efficiency of MLR in textile processing distate the properties of liquid fuel. e) Suggest the suitable chemical recipe for resin fir cotton fabric. f) Enlist the chemicals required for bleaching of comparison of the suitable chemical sequipment used 	 Hours / 70 Marks Seat No	 Hours / 70 Marks Seat No. Instructions – (1) All Questions are Compulsory. (2) Answer each next main Question on a nee (3) Illustrate your answers with neat sketches necessary. (4) Figures to the right indicate full marks. (5) Assume suitable data, if necessary. (6) Use of Non-programmable Electronic Poel Calculator is permissible. (7) Mobile Phone, Pager and any other Electron Communication devices are not permissible Examination Hall. Attempt any <u>FIVE of the following:</u> a) Define the term "location" with example. b) Define working efficiency and machine efficiency. c) State the importance of MLR in textile processing. d) State the properties of liquid fuel. e) Suggest the suitable chemical recipe for resin finish of cotton fabric. f) Enlist the chemicals required for bleaching of cotton. g) Name any four material handling equipment used in text 	 Hours / 70 Marks Seat No	 Hours / 70 Marks Seat No	 Hours / 70 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. Man Attempt any <u>FIVE</u> of the following: a) Define the term "location" with example. b) Define working efficiency and machine efficiency. c) State the importance of MLR in textile processing. d) State the properties of liquid fuel. e) Suggest the suitable chemical recipe for resin finish of 100% cotton fabric. f) Enlist the chemicals required for bleaching of cotton. g) Name any four material handling equipment used in textile

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2. Attempt any THREE of the following:

- a) Describe procedure to calculate production of textile industry.
- b) Describe method to conserve water in dyeing department.
- c) Calculate steam required par meter if
 - i) Quality = 100% cotton
 - ii) Quantity = 10,000 m
 - iii) L.D. = 10 m/kg
 - iv) Process : combine bleaching
- d) Describe the advantages of good lighting in textile process house.

3. Attempt any THREE of the following:

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- a) Suumarise production norms of bleaching and mercerisation process.
- b) Calculate quantity of water required for bleaching department for 1 lakhs mts cotton fabric.
- c) Compare solid fuel, liquid fuel and gases fuel.
- d) Calculate cost of chemical for dyeing of 1500 m cotton fabric with 3% reactive dye. [Cost : reactive dye = 400 Rs/kg, common salt = 10 Rs/kg, Na₂CO₃ = 15 Rs/kg]

4. Attempt any THREE of the following:

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- a) Describe criteria for selection of location for modern process house.
- b) Calculate production norms for cold-pad-batch machine for reactive dyeing.
- c) Calculate amount of energy required to evaporate 1 lit of water from a fabric having % expression 100%.
- d) Suggest quantity of chemicals required for dyeing of 100% polyester fabric with 6% dye.
- e) Describe accidents in textile processing industry.

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

- a) Suggest criteria for selection of site for modern process house.
- b) Calculate number of jigger machine required for dyeing of 20000 meter 100% cotton fabric with 3% reactive dye at a time. [Linear density of fabric = 8 m/kg]
- c) Calculate quantity of water required for 15000 meter 100% cotton fabric. [Linear density = 8 m/kg, Process = conventional unmercerised bleaching]

6. Attempt any TWO of the following:

- a) Calculate total quantity of water and cost of water for following data.
 - i) Quality = 100% cotton
 - ii) Quantity = 11,500 meter
 - iii) Linear density = 8m/kg
 - iv) Cost of water = 25 Rs/m^3
 - v) Process = dyeing with reactive dye
 - vi) m/c = fully automatic jigger
 - vii) % shade = 6%
- b) Calculate electric energy required and cost of energy par meter for printing of 1 lakh meter fabric on rotary screen printing machine. [cost = 4 Rs/unit]
- c) Calculate chemical required for dyeing of 1000 mt 100% cotton fabric with vat dyes. (assume suitable data)

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